





NIRBHAY PHERWANI

MOBILE APPS DEV @ REACHMOBI, APPLIED AI,
CO-FOUNDER @ CHATTODO, 9-TIME HACK WINNER

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EDUCATION

MS INFORMATION SCIENCES AND TECHNOLOGIES

Rochester Institute of Technology
2018 – 2020

BE COMPUTER ENGINEERING

University of Mumbai
2013 – 2017

SKILLS

SOFTWARE DEV

Java, Kotlin, Android, Python, Flask, React.js, JavaScript, Bootstrap, jQuery, PHP, Twig, Node.js, Angular, R.

ML, ANALYTICS

TensorFlow, Darknet, Darkflow, Keras, Scikit-Learn, Numpy, Pandas, Predictive Analytics, Chatbot Dev, Excel, Tableau.

DATABASES

MySQL, MS SQL Server, Oracle, MongoDB, Redis, Firebase Realtime DB, Redshift.

MISCELLANEOUS

AWS, Heroku, Firebase, Git, Trello, Jira.

AWARDS

MAKE IN INDIA HACK

IIT Bombay
FEB 2016

ESUMMIT HACK

Facebook, IIT Bombay
FEB 2017

FLOW MONSTER

JPMorgan Chase & Co.
JUL 2017

PROFILE

A professional with a strong background in computer science and experience in data analytics and machine learning. A full stack / apps developer with **3+ years** of corporate and project-based experience. A **serial hackathon winner**, with over **9 victories** in my name organized by government organizations like Make in India to top institutions like the IIT's to **Fortune 500** companies like **Facebook, JPMorgan** and Standard Chartered. Was also covered by [The Hindu](#), [DNA India](#), [TheBetterIndia](#), Times of India, [The EconomicTimes](#), Navbharat Times, [InShorts](#), and other media platforms. Please visit my [LinkedIn](#), [Webpage](#) or [GitHub](#) to learn more about my work.

EXPERIENCE

MOBILE APPLICATIONS ENGINEER

REACHMOBI, INC. | MAY 2020 - PRESENT

In less than a year at ReachMobi I have contributed towards the development of **4 applications** which are live on the Google Play Store and have a **user base greater than 5 million** (Messenger Home, Messenger Lite, Weather Home and iTheme).

- **Leading** the programming tasks / efforts for all the 4 products.
- Built features like search, customization, attachments, local databases and conducted A/B tests which helped improve user experience and **user retention on the messenger apps by 8%**.
- Incorporated and improved AdMob, AppOpen, Mopub, Native and Keyword based ad placements **to improve on revenue streams**.
- Monitored Firebase Crashlytics for bugs and helped **fix more than 50 crashes, driving crash free users up to 99.2%** in the products and company wide while collaborating with people from different teams.
- **Booted up and launched** a new product iTheme, an iOS themed app which gives a user the best of both (iOS and Android) **inside a week**.
- **Made constant improvements** on the apps, eg. notifications, device specific configurations, UI changes, resource management, tracking, instrumentation, remote configs, etc.
- Helped in forming new ideas like building widgets, persistent notifications, rewarded ads, walkthrough changes, etc to **drive up default rate and thus daily active usage** for the apps.
- Worked with Redshift to query data and exporting it to Excel for creating plots for retention, default rate, walkthrough completion, click through rate, a/b test results, etc.
- Completed most of the deliverables **before the deadline** and made weekly releases along with documenting the same on Slite.
- Helped resolve compliance-based issues **company wide** by coming up with smart solutions to tackle the same.
- Android, Java/Kotlin, RxJava, ContentProvider, Google Play Billing, Subscriptions and Managed Products, SQLiteDB, Leaflet.js, Location Services, Glide, Tenor API, Google Firebase, Redshift, Excel, GitLab.

PROJECTS (GITHUB)

SPOTHOLE - Python, React.js, Flask, AWS, SQL, TensorFlow, Darknet, Object Detection
[nirbhayph/spothole](#)

GEORDI - Python, React.js, Flask, Azure, MSSQL, TensorFlow, Darknet, Object Detection
[nirbhayph/geordi](#)

GEORDI PRICING - Python, Random Forest, Scikit-Learn
[nirbhayph/geordi-pricing](#)

AUTO DAMAGE DETECTION - Python, React.js, PHP, AWS, TensorFlow, Darknet, Object Detection
[nirbhayph/vamrr-vehicle-detection](#)

STRACKIFY - Android, Java/Kotlin, Firebase, SportsDB
[nirbhayph/strackify](#)

EMERGENCY SERVICES DIRECTORY - jQuery, Plugins
[nirbhayph/emergency-services-directory](#)

WEATHERFOX - React.js, Open Weather Maps, Moment.js
[nirbhayph/weatherfox](#)

PUBPAPER - Java, SQL, DAO
[nirbhayph/pubpaper](#)

GOFIFA - PHP, MongoDB, AWS, Heroku, HTML5/CSS
[nirbhayph/mongo-project-fifa19](#)

WINIFIER - Python, MongoDB, Android, AWS
[nirbhayph/winifier](#)

FLEET MANAGEMENT SYSTEM - Python, TensorFlow, Q-Learning
[nirbhayph/fleet-management-system](#)

BLIPPER - Android, Java
[nirbhayph/blipper](#)

LOGISTICS MANAGEMENT SYSTEM - Android, Node.js, Socket.IO, PostgreSQL, GMaps, Tookan API, AWS.
[nirbhayph/logistics-management-system](#)

CIMPRESS BOT - Python, Tensorflow, Redis, Flask
[nirbhayph/retrieval-based-chatbot](#)

EXPERIENCE (CONTINUED)

SOFTWARE DEVELOPER CO-OP

SOLU TECHNOLOGY PARTNERS | JAN 2020 - MAY 2020

Worked on 2 applications while pursuing my master's, where I was given the opportunity to **lead from the front** on developing the analytics segment for one of the applications.

1) An internal contact management and time-off request application.
2) A survey tool to be used for collecting feedback and for onboarding, hiring new employees.

- Integrated **Angular** and performed **DAR** on libraries for incorporating analytics on the frontend.
- **Introduced** Ngx-Charts (**D3**) to build clean and minimalistic charts. Modularized code, manipulated API data, and created domain entities on the frontend while making relevant changes in the backend to form chart data.
- Implemented routing, dynamic data-tables, drill down based filtering, ReCaptcha for the applications.
- Resolved **7+ open issues** on the Ngx-Charts library on GitHub.
- Implemented MongoBee **migration scripting** and worked on identifying regression tests to be performed.
- Implemented automation tests, unit tests resulting in **code coverage of at least 95%**.
- Found and resolved bugs in the frontend as well as backend, ranging from minor to critical severity, which **improved application performance** and user experience for both applications.
- Delivered a working product in **less than 30 days** which had an Initial audience of **more than 5000 users**.
- Created and delivered presentations for end of sprint demos.
- Angular 9, TypeScript 2, Java / Kotlin, Spring Boot, Spring Data and JPA, MySQL / MongoDB, JIRA, JUnit 5, Selenium 3, Jenkins, AWS EC2, Ngx-Charts (D3), Agile S/W Dev, Bitbucket.

AI/ML ENGINEER CO-OP

CHAMPS SOFTWARE, INC. | MAY 2019 - AUG 2019

Was the **creator** of IMClassify, a platform for different expertise level individuals or organizations, to develop **entire computer vision life cycles** for performing tasks related to **object detection**.

- Ideated and developed a **PaaS** for data collection, pre-processing, training, testing, and finally deployment for **any object's detection** using a browser directly.
- Configured the **scalable cloud infrastructure** and **Darkflow** training, Apache PHP environment on AWS.
- Created REST API services (PHP) to perform **CRUD operations** on the database. Developed scripts to interact with the deep learning model, to create **machine learning models on the go** with **asynchronous monitoring** and test them at various checkpoints.
- Configured the relational database environment, created the **data model** for the application, and wrote scripts to **automate the onboarding process** for incoming developers.
- Wrote **scripts** for model and parameter configuration, data collection, training, testing and **model evaluation (mAP)**.
- Developed the **React.js client application** consisting of the dashboard that consumes the REST APIs to help users navigate through different sections of the training process & cycle.
- **Modified the VGG Image Annotator open-source tool** to fit the platform needs and integrated the same with the REST services.
- React.js, PHP 7, Python 3, MySQL, Darkflow, Darknet, VGG Annotations, Ant Design, Wielydy, GitHub, AWS EC2, Route 53, Trello, Vanilla JS, HTML5/CSS, jQuery.

CERTIFICATIONS

MICROMASTERS IN AI
Columbia University (edX)

FRONT END ENGINEER
[Triplebyte](#)

API DEVELOPMENT
[HackerRank](#)

PYTHON
[HackerRank](#)

JAVASCRIPT
[HackerRank](#)

PUBLICATIONS

ANALYSIS OF GUN VIOLENCE AND MASS SHOOTINGS IN USA
[CIS II @ RIT, NY](#)
Mar 1, 2020

ANALYZING H7N9 AND H5N1 INFLUENZA CASES
[CIS I @ RIT, NY](#)
Oct 23, 2019

AN APPLICATION FOR COMPUTING FAILURE AND SURVIVAL RATES FOR AUTO PARTS
[IJARCS](#)
Dec 20, 2017

USING ARIMA TO FORECAST SALES OF AN AUTOMOBILE COMPANY
[IJSTE](#)
Nov 25, 2017

VIRTUAL REALITY BASED USER AUTHENTICATION SYSTEM
[IJSTE](#)
Nov 7, 2017

FLEET MANAGEMENT SYSTEM
[IJARCS](#)
Jan 4, 2017

INTERESTS

Hiking
Driving
Writing
Cricket

EXPERIENCE (CONTINUED)

SOFTWARE DEVELOPER (DAR - PART TIME)

ROCHESTER INSTITUTE OF TECH. | DEC 2018 - MAY 2019

Managed and maintained the **Drupal** web environment for the [Alumni](#) and [Giving](#) sites at the Dept. of Alumni Relations at RIT.

- Successfully **deployed 10+ modules**, views, and **15+ pages** from the staging to the production sites in my tenure here as a student worker.
- PHP, Twig, JavaScript, HTML5/CSS, jQuery, Chart.js, MySQL, Asana.

CO-FOUNDER AND LEAD DEVELOPER (ON HOLD)

CHATTODO (PRESEED) | FEB 2018 - FEB 2019

Chattodo is a product where one can gain insightful knowledge based on **accomplishment of tasks** with just some **people collaborating over chats** towards completing a project/goal. Visit [chattodo.co](#) to learn more.

- **Managed and lead** the product development.
- Setup the cloud infrastructure and launched the **Android app** in **less than 2 months** of development.
- Collaborated with the design, user acquisition teams to **build the product from the ground up** and form strategies to help **user base growth** and **retention** during the launch.
- In a gist, Chattodo is a **chat-first productivity app**, which is designed with small teams in mind. In the age of "move fast, fail fast", it is important to **get things done** and that is what the app focuses on.
- Android, Java/Kotlin, Firebase RealtimeDB, Crashlytics, RxJava.

SOFTWARE ENGINEER

JPMORGAN CHASE & CO. | AUG 2017 - NOV 2017

Got an offer after my bachelor's to work at JPMC after I participated in the annual **CodeForGood** Hackathon.

- During my short tenure here, I worked on developing a couple of modules in the **trade processing system** which accepted trades from restful services in various formats (like FPML) and converted them all to a unified format to make further amendments on them.
- **Ranked first** at the yearly "Flow Monster Hackathon" in the **Global Technology Analyst Program** for incoming technology analysts.
- .Java, Mule ESB, SQL.

SOFTWARE ENGINEER

KEYQUAL TECHNOLOGIES | DEC 2015 - FEB 2017

While pursuing my bachelor's I started working at KeyQual and built a couple of **chatbots** for the company.

1) NetXit is an online work exchange bot for connecting B2C.

2) Keyhire chatbot targets the **social hiring** segment with functions such as job search, applications, and assessments.

- These are **retrieval-based bots** built using Tensorflow, NLTK, Pandas and use the Ubuntu Dialog Corpus for conversational needs and a Redis database in the background for retrieving data related to the specific chatbot.
- **Configured** a [CI/CD](#) environment for org/client career portals/sites.
- Python, Facebook SDK, PHP, jQuery, BeautifulSoup, SQL.

DATA ANALYTICS INTERN

MAHINDRA & MAHINDRA | JAN 2016 - FEB 2016

- Analyzed data on automotive car components and developed a **predictive model** for **survival** and **failure** of the same.
- Also, analyzed sales data and forecasted sales for the **upcoming 6 months** using ARIMA modelling.
- R Programming, Weibull, Kaplan Meier, and Nelson Aalen analysis.