

Amrut Prabhu

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.COMP (HONORS) IN COMPUTER SCIENCE

Expected July 2020 | Singapore
Conc. in Software Engineering and Artificial Intelligence
Minor in Management of Technology

LINKS

Website: amrut-prabhu.github.io
Github: [amrut-prabhu](https://github.com/amrut-prabhu)
LinkedIn: [amrutprabhu](https://www.linkedin.com/in/amrutprabhu)
Twitter: [amrut_prabhu](https://twitter.com/amrut_prabhu)

COURSEWORK

- Thematic Systems Project I & II
- Software Engineering Principles and Patterns
- Machine Learning (Teaching Asst)
- Software Engineering (Teaching Asst)
- Intro to Artificial Intelligence
- Computer Vision
- Data Structures and Algorithms (Teaching Asst)
- Computer Networks
- Operating Systems

SKILLS

PROGRAMMING

Proficient:

Java

Familiar:

JavaScript • Python • C++ •

HTML/CSS

Prior Experience:

MySQL • C • Matlab

TOOLS AND FRAMEWORKS

Familiar:

Git • Pandas • Scikit-learn • SCSS

Prior Experience:

React • LESS • Bootstrap • Nginx •

Vue.js • Docker

EXPERIENCE

WORKS APPLICATIONS | SOFTWARE DEVELOPMENT INTERN

May 2018 – August 2018 | Singapore

- Collaborated with 2 members to develop a framework to speed up development of custom ERP software for clients.
- Added the **import feature** for a new data type, and support for batch CRUD operations which reduced the number of slow database queries.
- Fixed multiple bugs such as **non-persistent highlighted text** in search results.
- Streamlined application deployment to a single step process.
- Main tech used: Java, JavaScript, Google Closure library, Jenkins, Nginx, Docker-compose, LESS

PROJECTS

TEAMMATES | JAVA, TYPESCRIPT, ANGULAR, JMETER, PYTHON

Jan 2019 – present

- Contributing code, PR reviews and issues to the **>150 KLOC open source TEAMMATES** project, a feedback platform that has served over 300,000 users.

Continuous Profiling

- Leading a team of 3 to design a **Performance testing** framework for the project.
- Creating scripts to generate JMeter tests and integrate it into the CI pipeline.

Recovering Session Links

- Led a team of 2 to allow unregistered students to **recover links** to their sessions.
- Added a form to email session links to the user after reCAPTCHA verification.
- Developing functionality to allow admins to **generate replacement links**.

CHAIRVISE | PYTHON, VUE.JS

Sep 2018 – Nov 2018

- Developed the web application to visualize Microsoft CMT conference data.
- Enhanced the visualization feature by deriving **insights from the file combinations** in multi-file uploads.

PREDICTION OF EARNINGS AND REPAYMENT RATES | PYTHON

Sep 2018 – Nov 2018

- Led a team of 5 to predict student earnings and repayment rates over time using the College Scorecard Dataset.
- Tuned ML models such as **Gradient Boosting** and Random Forest regressor with Regressor Chain to achieve an accuracy of ~86% on the test set and **91%** overall.
- Visualized and analyzed the results to report the **implications of the models**.

HIGHLIGHT | JAVASCRIPT, HTML, CSS

Sep 2018

- Collaborated with 2 team members to develop the **Chrome Extension** at the 20 hour Facebook Singapore Hackathon 2018.
- Modifies the markup of the web page to highlight the **most important text**, which is derived from the activity of previous visitors.

CO-CURRICULAR ACTIVITIES

NUSSU COMMIT | CENTER AND OPERATIONS MANAGER

July 2018 – present | IT wing of NUS Student Union (NUSSU), Singapore

- Managed a team to improve the decor and accessibility of the computer centers.
- Coordinated the scheduling of over 60 supervisors for the 2 centers.