

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)

TEACHING

- Machine Learning: Spring 2019
- Software Engineering: Fall 2018
- Data Structures and Algorithms: Spring 2018

COURSEWORK

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

SKILLS

Proficient:

Java • Git

Familiar:

JavaScript • Python • C++

HTML&CSS • SCSS • Bootstrap

Prior Experience:

React • Angular • MySQL • C

ACTIVITIES

NUSSU commIT (AY18/19, AY19/20):

Center and Operations Manager

TeamNUS Cricket (AY18/19):

Varsity Team Athlete

EXPERIENCE

WORKS APPLICATIONS | SOFTWARE DEVELOPMENT INTERN

May 2018 – August 2018 | Singapore

- Collaborated with 2 engineers 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** deployment to a single step process for the MSA application.
- Main tech used: Java, JavaScript, Google Closure library, Jenkins, Nginx, Docker-compose, LESS

PROJECTS

TEAMMATES | JAVA, TYPESCRIPT, ANGULAR, JSMETER

Jan 2019 – present

Contributions

- 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 architect a **Load and Performance testing** (L&P) framework for the project, which is to be integrated in the CI pipeline.
- Created Java tests to setup data and generate JMeter L&P tests for multiple API endpoints of different types.

Recovering Session Links

- Developed a feature to allow the admin to **regenerate links** for a student's feedback sessions, and send the corresponding email to the student.
- Collaborated with a team member to allow unregistered students to **recover links** to their sessions through email, after successful reCAPTCHA verification.

CHAIRVISE | PYTHON, VUE.JS

Sep 2018 – Nov 2018

- Developed a 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 a **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.