ZHIXIANG TEOH

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EDUCATION

University of Michigan, Ann Arbor, MI, 2021 – 2023
- B.S. Computer Science, ArborHacks, Google DSC Design & Engineering

University of Pittsburgh, Pittsburgh, PA, 2019 – 2020
- Computer Science Club Mentor, Math Club Communications Director, Second Place Big Idea Blitz 2020

RELEVANT EXPERIENCE

Open Source Fellow - WebXR, Major League Hacking. Remote, Jan 2021 - Apr 2021
- Contributing to WebXR project through building immersive web video experiences using three.js rendering library and the new Media Layers API, supervised by Rik Cabanier at Facebook
- Extended samples to support different types of media, including 2D, 180/360-degree mono and stereo
- Won top open source hackathon projects for SlateVim and Retrospective-Tracker (see projects)

Software Engineering Project, National University of Singapore, Singapore, Singapore, Aug 2020 - Dec 2020
- Applied object-oriented paradigm, Java 8 Streams, and unit and integration testing in a team Command Line Interface (CLI) project
- Wrote 3500/6000 lines of code, including main Game Mode, and 40% of user and developer docs
- Managed issues and releases, and authored over 30 PRs in two months

Teaching Assistant and Peer Tutor, University of Pittsburgh, Pittsburgh, PA, Jan 2020 - Dec 2020
- Undergraduate Teaching Assistant in Intermediate Java and Data Structures & Algorithms
- Designed material for weekly labs, and hosted individual office hours; 20h/week
- Highest OMETS teaching survey response rate (40%) for Intermediate Java with 80% “Strongly Agree”
- Student tutor in the Math and CS Resource Centers, in courses up to Linear Algebra and Algorithms

PROJECTS

Retrospective Tracker, MLH Fellowship Halfway Hackathon, Mar 2021
- Browser extension to conveniently track weekly retrospectives for the MLH Fellowship; top project
- Formed team and authored 8 PRs and tracked all 13 progress and feature issues

SlateVim, MLH Fellowship Orientation Hackathon, Feb 2021
- Online collaborative Vim document editor built with Slate.js and AWS Amplify; top open source project
- AWS Amplify serverless GraphQL query API to handle mutations and subscriptions for live collaboration

Course Review, Personal, Dec 2020
- Interactive course review web platform built on MERN stack, with a fully functional login system built from scratch, and integrated with Algolia’s InstantSearch API

Machine Learning Methods in R, Oct 2020 - Nov 2020
- Compares and analyzes machine learning methods, simple linear regression to support vector machines
- Analyzes a moderate-size raw materials dataset with 12 continuous inputs and two discrete inputs

SKILLS

Programming Languages
- **Java, C++, JavaScript, Python**, R, Haskell

Technologies and Frameworks
- **Git, React (Redux, Context), MongoDB, SQL**, AWS Amplify, Tableau

COURSEWORK

Data Structures (Java, C++), Algorithms, Programming Language Concepts (Haskell, Prolog, OCaml, Scala), Introduction to Machine Learning (R), **Software Engineering, Linear Algebra, Numerical Computing**