

# ZHIXIANG TEOH

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## EDUCATION

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**University of Michigan**, Ann Arbor, MI, 2020 – 2023

- B.S. Computer Science, [FP Lab](#), [Google DSC Design & Engineering](#), IEEE, GitHub Campus Expert

**University of Pittsburgh**, Pittsburgh, PA, 2019 – 2020

- Computer Science Club Mentor, Math Club Communications Director, [Second Place Big Idea Blitz 2020](#)

## SKILLS

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Programming Languages: Java, C++, JavaScript, Python, OCaml, Haskell

Technologies/Frameworks: JUnit, Mocha/Chai, React, Three.js, Node.js, MongoDB, SQL, Docker/K8S, CI/CD

## MEDIA

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[Featured on Facebook's developers blog for work on WebXR layers](#)

## EXPERIENCE

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**Backend Engineer Intern**, Pop Social Inc., Remote, May 2021 - Present

- Write backend API test scripts and documentation, and improve type-safety of backend services
- Design backend scheme for scalable search functionality and cloud storage image upload

**SRE Software Engineer Intern**, Benefitfocus, Remote, May 2021 - Aug 2021

- Write deployment automation scripts, automation tasks for continuous integration and delivery (CI/CD)

**Open Source Fellow – Facebook/WebXR**, Major League Hacking, Remote, Jan 2021 - Apr 2021

- Built [immersive web video experiences](#) using [Three.js](#) 3D rendering library and the new [Media Layers API](#), supervised by [Rik Cabanier](#) at Facebook
- Won hackathons for open-source projects SlateVim and Retrospective-Tracker (see projects)

**Software Engineering Project**, National University of Singapore, Singapore, Aug 2020 - Dec 2020

- Applied object-oriented paradigm, Java 8 Streams, and unit and integration testing in a team 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 peer-reviewed PRs](#) in two months

**Teaching Assistant**, 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, 70% reported “enhanced understanding of class material”

## PROJECTS

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**Retrospective Tracker**, MLH Fellowship Halfway Hackathon, Mar 2021

- Browser extension to track weekly categorized notes; [winner out of 11 projects \(44 participants\)](#)
- Drag-and-drop UI and auto-save using React Context to manage application state, [8 PRs](#)

**SlateVim**, MLH Fellowship Orientation Hackathon, Feb 2021

- Online collaborative Vim editor built with [Slate.js](#); [winner out of 31 projects \(91 participants\)](#)
- [AWS Amplify serverless GraphQL API](#) to handle mutations and subscriptions for live collaboration

**Course Review**, Personal, Dec 2020

- Interactive course review web platform built on MERN stack, React frontend and RESTful backend API
- Fully functional login system built from scratch, and integrated with [Algolia's InstantSearch API](#)

**Machine Learning Methods in R**, Machine Learning Course, Oct 2020

- Compared various machine learning methods, from simple linear regression to support vector machines
- Analyzed a 2000-samples raw materials dataset with twelve continuous inputs and two discrete inputs