**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](https://drive.google.com/drive/folders/1dIgGMIHbo-wdgUm_f1gvAPu1lngcHQTN?usp=sharing)

RELEVANT EXPERIENCE

**Open Source Fellow - WebXR**, Major League Hacking. Remote, Jan 2021 - Apr 2021

* Contributing to WebXR project through building [immersive web video experiences](https://webxr-layers.netlify.app/) using [three.js](https://threejs.org/) rendering library and the new [Media Layers API](https://immersive-web.github.io/layers/#videolayer), supervised by [Rik Cabanier](https://github.com/cabanier/WebXRLayers-samples) at Facebook
* Extended samples to support different types of media, including 2D, 180/360-degree mono and stereo
* Won top open source project for SlateVim (see projects) in the orientation hackathon

**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](https://ay2021s1-cs2113-t14-2.github.io/tp/team/zhixiangteoh.html), including main Game Mode, and 40% of user and developer docs
* Managed issues and releases, and [authored over 30 PRs](https://github.com/AY2021S1-CS2113-T14-2/tp/pulls?q=is%3Apr+is%3Aclosed+author%3Azhixiangteoh+) 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](https://drive.google.com/drive/u/0/folders/1rg_ei3SXWZuU_enc-AiNw8wm7HNDQs_7) for weekly labs, and hosted individual office hours; 20h/week
* Highest [OMETS teaching survey](https://www.teohzhixiang.com/resume/assets/pdf/omets_0401_fall2020.pdf) 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**](https://github.com/zhixiangteoh/retrospective-tracker/releases/tag/0.1), MLH Fellowship Halfway Hackathon, Mar 2021

* Browser extension to conveniently track weekly retrospectives for the MLH Fellowship
* Formed team and authored [8 PRs](https://github.com/zhixiangteoh/retrospective-tracker/pulls?q=is%3Apr+author%3Azhixiangteoh+is%3Aclosed) and tracked all 13 progress and feature issues

[**SlateVim**](https://dev.d3p5pyu6h7q77o.amplifyapp.com/), MLH Fellowship Orientation Hackathon, Feb 2021

* Online collaborative Vim document editor built with [Slate.j](https://www.slatejs.org/examples/richtext)s and AWS Amplify; [top open source project](https://devpost.com/software/slatevim)
* [AWS Amplify serverless GraphQL query API](https://docs.amplify.aws/lib/graphqlapi/getting-started/q/platform/js) to handle mutations and subscriptions for live collaboration

[**Course Review**](https://co-re.netlify.app/), 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](https://www.algolia.com/doc/api-reference/widgets/instantsearch/react/)

[**Machine Learning Methods in R**](https://github.com/zhixiangteoh/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**