

Cameron Matsui

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EDUCATION

Amherst College

Bachelor of Arts in Mathematics and Computer Science

Amherst, MA

Expected December 2022

- Cumulative GPA: 3.95/4.00
- Major GPA: 4.00/4.00

EXPERIENCE

Meta (Formerly Facebook)

Software Engineering Intern

Seattle, WA

June 2022 - August 2022

- Completed intern project to enable refunds for local payment method (LPM) providers
- Built out asynchronous flow to make REST API requests to providers
- Rearchitected existing LPM refund code to object-oriented pattern to avoid code duplication

Amherst College

Gregory S. Call Summer Research Fellow, Computer Science

Amherst, MA

June - July 2021

- Worked with Professor Will Rosenbaum
- Studied adversarial queueing theory, a model of packet forwarding
- Wrote software to simulate the model and proved total load equivalence for a class of forwarding protocols

The University of Texas at Austin, Department of Integrative Biology

Austin, TX

Research Fellow, UT COVID-19 Modeling Consortium, and the Meyers Lab May 2020 - January 2021

- Researched the transmission dynamics of COVID-19
- Created models and implemented them in Python with NumPy and Pandas
- Models assisted the University of Texas at Austin in reopening for the fall and spring semesters of 2020-2021

PROJECTS

RateOurCourses.com

Full Stack Web Development

Amherst, MA

October 2020 - Present

- A student-run course review site to help Amherst College students choose their courses
- Rearchitected and implemented site using Flask, a Python web framework
- Iterated on previous UI design and reimplemented the frontend with Bootstrap
- Sited hosted on AWS Elastic Beanstalk and utilizes AWS RDS for PostgreSQL database

TaskTree

July 2022-Present

- TaskTree is a CLI project-planning and task-management tool written in Rust
- Available at github.com/cammatsui/tasktree

ModularEpi

November 2020 - January 2021

- ModularEpi is a flexible Python framework for building and running compartmental epidemiological models
- Features include metapopulation modeling and programmatic construction of the next-generation matrix to calculate R_0
- Available at github.com/cammatsui/modularepi

View more projects at cammatsui.github.io

PROGRAMMING LANGUAGES AND TECHNOLOGIES

- Proficient in Java, Python (including Flask, NumPy, and Pandas libraries), JavaScript/TypeScript, and Hack
- Working knowledge of Rust, C++, Apache Thrift, Linux, AWS and, \LaTeX
- Experience with R, MySQL, and HTML