

## EDUCATION

**Worcester Polytechnic Institute (WPI)**

Worcester, MA

- *M.S. Computer Science*
- *B.S. Computer Science (High Distinction, GPA 3.93/4.00)*

*Expec. May 2021**May 2020*

## SKILLS

- **Languages:** JavaScript/TypeScript, Java, Kotlin, C, HTML/CSS, Python, SQL, L<sup>A</sup>T<sub>E</sub>X, Bash, Haskell
- **Technology:** GNU/Linux, Node.js, Angular, AWS, Android, Git, Nginx, JetBrains IDEs, Microsoft Office

## EXPERIENCE

• **Beecology Project, WPI**

Worcester, MA

*Oct 2019–Present**Full Stack Web Developer*

- **Front-End Visualization:** Designed Angular front-end data visualization tools for historical corpus of bee observations for NSF-funded educational ecology project
- **Curriculum API:** Designed and implemented Node.js API for managing lesson plan metadata and files
- **Data Analysis:** Wrote Python flask API scripts for performing data analysis for bee-related hypotheses

• **ASSISTments**

Worcester, MA

*Jun–Jul 2020**Systems Engineer Intern*

- **AWS Migration:** Migrated web application used by thousands of students and teachers from on-premises hardware to secure AWS cloud, involving PostgreSQL, Java, Vue.js, and Python on Amazon RDS and EC2

• **Wakefly, Inc.**

Marlborough, MA

*May–Jul 2019**IT Hosting Intern*

- **Hosting Team:** Managed installing, updating, and troubleshooting virtual Windows and GNU/Linux servers hosting Kentico, Umbraco, WordPress, etc. content management systems and databases for dozens of clients
- **IT Tasks:** Independently completed IT tasks and organized inventory as sole IT staff for office of 32 employees

• **MAPFRE Insurance**

Webster, MA

*May–Aug 2018**Application Services Intern*

- **Enterprise Web Appraisal System:** Worked with application services team to develop dynamic front-end and debug database for internal appraiser web application

## PROJECTS

• **Afterlight Caves**

Worcester, MA

*Nov 2019–Mar 2020**Personal Project—<https://afterlightcaves.com>*

- **Procedurally Generated Web Game:** Designed and built performant, procedurally generated top-down shooter game for the web with two other students. All engine code, game logic, and graphics were made from scratch using only JavaScript. Selected by WPI to be demonstrated at PAX East 2020.

• **Augmented Reality Tour Guide App**

Kyoto, Japan

*Jul–Oct 2019**Senior Project, Kyoto VR*

- **Audio Tour App:** Developed mobile app in team of three for delivering audio tours with augmented reality features for historic sites in Kyoto, Japan
- **Tour Editor Web App:** Designed and deployed web application for creating and version-managing extensible location-based audio tours including vanilla JavaScript front-end and Node.js back-end

• **Algol Meeting Scheduler**

Worcester, MA

*Nov–Dec 2018**Project Manager, WPI Software Engineering Class*

- **Schedule Planner Web App:** Led team of four to develop Java API, MySQL database, and Angular front-end.

## AWARDS/OTHER POSITIONS

- **Dean's List:** WPI, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020
- **Beta Theta Pi:** Eta Tau Chapter, Risk Management Chairman 2018; Finance Chairman 2019
- **Upsilon Pi Epsilon:** Computer Science Honor Society, Nov 2018
- **Eagle Scout Award:** Boy Scouts of America, Sep 2012