

JOSEPH PETITTI

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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^AT_EX, Bash, Haskell
- **Technology:** GNU/Linux, Node.js, Angular, AWS, Android, Git, Nginx, JetBrains IDEs, Microsoft Office

EXPERIENCE

• Beecology Project, WPI

Worcester, MA

Full Stack Web Developer

Oct 2019–Present

- **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

Systems Engineer Intern

Jun–Aug 2020

- **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

IT Hosting Intern

May–Jul 2019

- **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

Application Services Intern

May–Aug 2018

- **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

Personal Project—<https://afterlightcaves.com>

Nov 2019–Mar 2020

- **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

Senior Project, Kyoto VR

Jul–Oct 2019

- **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

Project Manager, WPI Software Engineering Class

Nov–Dec 2018

- **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