

# JOSEPH PETITTI

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## EDUCATION

### Worcester Polytechnic Institute

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

Worcester, MA

*Expec. May 2020*

*Expec. May 2021*

## SKILLS

- **Languages:** JavaScript/TypeScript, Java, C/C++, PL/SQL, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X, Python, Bash, Haskell
- **Technology:** GNU/Linux, Node.js, Angular, Git, Nginx, Vim, Eclipse, Visual Studio Code, Microsoft Office

## EXPERIENCE

- **Worcester Polytechnic Institute** Worcester, MA  
*Full Stack Web Developer—Beecology Project* Oct 2019–Present
  - **Front-End Visualization:** Designed Angular data visualization tools for NSF-funded educational ecology project
  - **Data Analysis:** Wrote Python flask API scripts for performing data analysis for bee-related hypotheses*Teaching Assistant—Computer Science Department* Aug 2018–Present
  - **Labs, Office Hours:** Taught labs, held office hours, and graded projects for undergraduate CS classes
- **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  
*Team Member, 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
- **Cultural Preservation and Promotion Website** Central, Hong Kong  
*Team Member, Institute for Sustainable Urbanisation* Jan–Mar 2019
- **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, SQL 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
- **Beta Theta Pi:** Eta Tau Chapter, Finance Chairman 2019; Risk Management Chairman 2018
- **Upsilon Pi Epsilon:** Computer Science Honor Society, Nov 2018
- **Eagle Scout Award:** Boy Scouts of America, Sep 2012