

# Christopher Josef Rosenblatt

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## Objective

An entry level software engineering position after December 2020 where I can hone my existing skills and learn new ones.

## Education

### Purdue University

- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics
- Current GPA: 3.98/4.0
- Awards and Honors: Dean's List & Semester Honors (All Semesters); Multiple Scholarships

West Lafayette, IN  
Expected December 2020  
Expected December 2020

## Work Experience

### Research Intern – Smart Information Flow Technologies

- Created a Flask-based Python API using OpenAPI 3.0 and implemented methods for interfacing with Common Lisp scripts using the cl4py library
- Wrote Python scripts to generate, analyze, validate, and test PDDL problem files for various domains of interest
- Built a LaTeX parser using Python to extract information about PDDL problem execution at incremental time steps
- Used the SHOP3 planning tool to analyze problem domains and determine optimal plans of execution
- Used Gitlab CI to expedite and automate repetitive work, including building and deploying multiple Docker images

Minneapolis, MN  
May 2020 – August 2020

### IT Intern – Union Pacific Railroad

- Created, tested, and documented multiple APIs for B2B integration with external customers using Spring with Maven build tools
- Worked closely with business partners to define standardized schema and terms for APIs using OpenAPI 3.0
- Researched, created, and presented a process for automatically generating UP-standard documentation for the new external APIs using Spring Rest Docs, MockMVC, and AsciiDoctor
- Implemented mocking capabilities into APIs using WireMock and Jenkins for easy customer testing
- Worked with other interns to standardize, document, and present the process for creating APIs so work can continue efficiently into the future
- Converted to part-time remote intern for Fall 2019 semester

Omaha, NE  
May 2019 – Nov. 2019

### Undergraduate Teaching Assistant – Purdue University

- Assisted 40+ students in C programming lab exercises (C Programming)
- Assisted 20+ students in projects such as implementing a shell and an HTTP web server (Systems Programming)
- Acted as Project Manager and Mentor for two teams completing semester-long projects (Software Engineering)

West Lafayette, IN  
Fall 2018 – Spring 2020

## Personal Projects

### GovHub

- Software Testing class team project
- Web App built for citizens of a town or city to report various issues and local governments to track and resolve them
- Contribution: Worked on all parts of the stack, implementing an “issue list” page and robust Google Maps integration
- Frontend written in Angular, backend in Node.js/PostgreSQL

West Lafayette, IN  
Fall 2019

### Wizard Duel 2

- Software Engineering class team project
- Real-time online combat game featuring resource management, a leveling system, and skill-based matchmaking
- Contribution: Worked on setting up Node.js server with socket.IO and worked heavily on Android frontend, especially to implement core gameplay loop
- Acted as team's Scrum Master

West Lafayette, IN  
Spring 2019

## Skills

**Languages:** Proficient in Java, C, C++, Python; Experience with HTML/CSS/JS (incl. Angular and Node.js), Swift

**Operating Systems:** MacOS and Windows; Experience with Linux

**Tools:** Git/GitLab, Bash/Zsh, Unix, OpenAPI/Swagger, IntelliJ, VSCode, Vim, Xcode, Android Studio, Docker, SQL, Maven, Spring, JUnit, AsciiDoctor/Markdown

## Leadership

### Director of Hello World Hackathon

- Leader of Purdue's freshman-only hackathon
- Organize a virtual hackathon for 300+ students, overseeing UX, Comms, Finance, Dev, and Design teams

West Lafayette, IN  
Spring 2020 - Fall 2020