

Benjamin Schondorf

Software Engineer

An experienced, passionate developer seeking opportunities to advance society and improve the world

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Authorized to work in: United States

Education

University of Michigan

Bachelors of Science, Engineering in Computer Science

Expected Graduation: December 2021

Ann Arbor, MI

- **GPA:** 3.53
- **Minor:** Music
- **Relevant Courses:** Computer Architecture, Computer Security, Software Engineering, Operating Systems, Web Systems, Linear Algebra, Differential Equations, Discrete Math, Statistics in Computing
- **Extracurriculars:** Michigan Marching Band (www.michiganmarchingband.com/), Michigan Hackers (michhackers.com/)

Work Experience

IBM

May 2021 - August 2021

Extreme Blue Intern: Full-Stack Developer

Austin, TX (remote)

- Build an automated system that is expected to increase testing efficiency by 24%, leading to an anticipated savings of **\$1.45 million** in savings per year.
- Created an automated **React + Flask** web application to replace the manual process of requesting, approving, creating, and cleaning SAN storage.
- Led efforts to develop a **Python API** that interfaces with switches and storage containers to allocate storage for testing.
- Developed a **Flask Rest API** separate from the front-end, enabling it to be compatible with future automation tools.

Ocient

May 2020 - August 2020

Software Engineer Intern: Backend Developer

Chicago, IL (remote)

- Exposed to the startup environment, utilizing rapid application development and **agile** methodologies.
- Implemented a code **static analysis** tool to run nightly on the codebase through the **Gitlab CI/CD** pipeline and provide a report in the morning of bugs/errors found.
- Constructed a dashboard in **Python** to generate graphs of the data created by the CI/CD pipelines, in order to help the test team find holes in their testing infrastructure.
- Added compatibility for functions from database languages such as SQL Server, PostgreSQL, and Oracle/PLSQL using **C++** to allow for compatibility with many different querying languages.

Ford Motor Company

May 2019 - August 2019

Autonomous Vehicle Software Intern

Palo Alto, CA

- Built a communication pipeline using the **ROS2** framework to send custom messages between the different modules in the car, improving the **reliability** of messages and the rate the prototype vehicle could be iterated upon.
- Calculated lane level localization and center offset of vehicles based on vehicle coordinates and lane polynomials in **Python** to provide vital data to the reinforcement learning algorithms used for navigation.
- Created a data pipeline using **C++** to interpret lane-level map information for driving policy algorithms.

Skills & Interests

- **Languages:** C++, Python, R, HTML/CSS, Javascript, MATLAB, Golang, Java
- **Tools:** VSCode, Flask, MongoDB, GitHub, Linux Environment, GitLab, Docker, SQL, Jupyter, ROS2
- **Skills:** Automation, Software Development, Scripting, Web Development, Problem Solving, Multi-Threaded Programming
- **Interests:** Rock Climbing, Reading, Music, Sustainability, Biking, Politics, Reddit, Board Games, Robotics