

Present:
Ann Arbor, Michigan

Ben Reeves

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SKILLS

Technical

- Highly skilled: C++, Python, JavaScript, Java
- Experienced: MATLAB, C, Scala, C#
- Cloud tools: AWS, Azure, Docker, Kubernetes
- Frameworks: TensorFlow, Angular, React, Spring

Personal

- Gifted at teaching and conveying technical information
- Extremely fast at learning new topics and systems
- Effective at conflict resolution
- Highly creative personality

EXPERIENCE

Software Engineer Intern

May 2018 — Aug. 2018

Relativity — Chicago, Illinois

- Learned Scala and Kubernetes in a professional setting by writing code to automatically deploy end-to-end tests.
- Conducted full evaluations of multiple of Azure cloud services and documented my findings in writing.
- Performed A/B testing on two versions of a major text ingestion pipeline that processes millions of documents.

Instructional Aide — EECS 482

Jan. 2018 — Present

University of Michigan College of Engineering

- Led two weekly lab sections attended by 45 students and received 95% positive feedback on my teaching methods.
- Held four hours of office hours per week, assisting students with difficult class content and project implementation.
- Helped professors write and grade exams.

Full-Stack, Mobile, and Visualizations Developer

Sep. 2015 — Jan. 2018

University of Michigan Transportation Optimization Lab

- Wrote Android code for the official University of Michigan mobile app to support location tracking, which enabled us to collect mobility data from more than 500 students and faculty on campus.
- Developed a Dockerized backend stack to collect this data using Java Spring, Redis, Node.js, and MongoDB.
- Designed and programmed more than 15 compelling, 3D data visualizations using Cesium.js, allowing our researchers to better understand and interpret transportation data.
- Created a web interface using Dojo.js to monitor the real-time state of our on-demand transit system.
- Trained other lab members on how to use technologies such as Docker, Socket.io, Cesium.js, Redis, and MongoDB.

PROJECTS

🔧 DIY Analog Music Synthesizer

Apr. 2017 — Present

Studied the fundamentals of analog circuit design and built a hardware electronic instrument for synthesizing music.

🔧 Test Coverage for Zulip

Mar. 2018

Worked with a partner and wrote test cases to improve code coverage in the Python backend of Zulip, an open-source chat service, resulting in two merged pull requests. Wrote a detailed technical report documenting our work.

SVM Sentiment Classifier using SciKitLearn

Jan. 2018

Investigated academic literature and implemented techniques for feature extraction from Yelp reviews. Fed these features into a Linear SVM to classify reviews as positive, negative, or neutral with 75% accuracy (*code not public*).

🔧 Homemade Assembly IDE: asIDE

Mar. 2016

Used the Qt C++ library to write a cross-platform IDE text editor with syntax highlighting and autocompletion.

EDUCATION

University of Michigan College of Engineering

Dec. 2018

Ann Arbor, Michigan

Bachelor of Science in Engineering: Computer Science — 3.86 GPA

EECS 388: Computer Security
EECS 445: Machine Learning
EECS 481: Software Engineering

EECS 482: Operating Systems
EECS 485: Web Systems
EECS 498: Reinforcement Learning