

Maxime Berenshteyn

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Education

University of California, Berkeley

August 2018 – May 2022

B.A., Computer Science

Cumulative GPA: 3.7

- **Coursework:** Algorithms & Intractable Problems, Introduction to Database Systems, Machine Structures, Data Structures, Discrete Mathematics
- **Current (Fall 2020):** Computer Security, Artificial Intelligence, Cloud Computing and SaaS

Experience

Pioneers in Engineering

Berkeley, CA

Software Engineer, Runtime Team

September 2019 – Present

- Overhauled voltage-monitoring firmware for Arduino-driven robot sensors in C++ used to provide computer science education and competition opportunities for low-income Bay Area students
- Redesigned core robot sensor and communication systems with 8-man team and project manager in formal development environment

International Computer Science Institute

Berkeley, CA

Research Assistant, Vision Group

March 2020 – July 2020

- Implemented preliminary convolutional neural network (CNN)-based model for open-set image recognition in Python via PyTorch
- Augmented open-set recognition model following principles of RotationNet model, analyzing additional transformations of images to optimize for open-set recognition and categorization

UC Berkeley EECS Department

Berkeley, CA

Academic Intern

August 2019 – December 2019

- Co-instructed 30+ students in lab sections of UC Berkeley's Data Structures course with tutoring and project assistance to develop understanding of fundamental data structures concepts
- Coordinated with supervising teaching assistant and other academic interns to develop an instructional plan based on student needs

UC Berkeley IT Client Services

Berkeley, CA

Project Technology Consultant

February 2019 – Present

- Configured and deployed 150+ new computers to UC Berkeley staff to bring campus up to modern technological and security standards
- Trained and mentored new student hires and collaborated with manager to reduce onboarding time for new employees

Projects

MOOCBase DBMS

January 2020 – May 2020

- Built a multipurpose SQL-compatible database management system in Java with concurrency control and recovery systems

Linear Algebra Calculator

November 2018 – July 2019

- Implemented a linear algebra and vector math calculator in Python backed by PyTest library, practicing test-driven development to ensure accuracy of results

Skills

- **Languages:** Python · Java · PostgreSQL · C · C++ · LaTeX · HTML/CSS
- **Other:** Git · PyTorch · MongoDB · Jira · Confluence · Bash · IntelliJ · Visual Studio Code