Nathan Cohen

https://www.cs.purdue.edu/homes/cohen53/

EDUCATION

Purdue University

Bachelor of Science in Computer Science

Certificate of Entrepreneurship

West Lafayette, IN

Aug 2017 - May 2021

Mobile: (502) 415 - 2491

Email: ncohen4299@gmail.com

GPA: 3.79/4.00

EXPERIENCE

Cisco Systems San Jose, CA

Software Engineering Intern

May 2020 - Aug 2020

• Causality: Designed and implemented a root cause analysis library, which was used for detecting failures in routers. Strategies include parsing and evaluating custom expressions across various hierarchical forms of data.

• Causality UI: Developed a React front end to display hierarchical results of a root cause analysis on a causality graph.

Discover Financial Services

Riverwoods, IL

May 2019 - Aug 2019

 $Software\ Engineering\ Intern$

• Secure Document Upload: Implemented backend of account recovery system in Spring Boot application within security spec. Successfully deployed and maintained product with 95% test coverage. Implemented and maintained Jenkins pipeline for code deploy and testing.

• JWT 2.0: Refactored legacy API to abide by modern security standards.

Purdue University

West Lafayette, IN

May 2018 - Dec 2019

Teaching Assistant & Volunteer Work

- CS 18000: Problem Solving and Object-Oriented Programming: Authored bi-weekly labs for Purdue's introduction to computer science course in Java. Mentored students in completing their work.
- CS 25100: Data Structures and Algorithms: Worked as senior undergraduate teaching assistant under Professor Gustavo. Prepared and graded homework and exams, and wrote automated grading bash scripts.
- Purdue Athletic Life Success Program: Computer Science Instructor: Organized and directed a 4-week introductory computer science course for students from Lafayette area primary schools.

Alpha Epsilon Pi

West Lafayette, IN

Philanthropy Chair

Sep 2018 - Dec 2019

- Managed year long committee for organization's philanthropy event and raised upwards of \$3,000 dollars for charity.
- Recognized for best philanthropy growth at Alpha Epsilon Pi's International convention.

Projects

UDP Video Stream: Researched and designed a client/server video streaming application over UDP that deconstructs, sends, and reassembles H.264 frames.

Boarding Simulator: Designed multithreaded program to simulate the airbus boarding experience, testing different patterns of order to decrease wait time.

Depend On Me: Built backend for web application performs task managements and scheduling for teams practicing Agile.

LST Scheduler: Developed and implemented a new process scheduler for the XINU operating system which used slack team as means for deciding priority.

Relevant Coursework

- Data Structures & Algorithms
- Operating Systems
- Analysis of Algorithms
- Computer Networks
- Information Systems
- Systems Programming
- Compilers
- Cryptography
- Computer Security

Programming Skills

Languages: C, C++, Python, Java, Scala, Rust, ARM, SQL, PL/SQL, JavaScript

Technologies: GCC, LLVM, LLDB, Spring Boot, JDBC, JUnit, Flask, Jenkins, AWS, LaTeX, ANTLR, React