Sandy Harvie

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Education

Brown University

Providence, RI

September 2015 - May 2019

B.S. Computer Science

• Grade Point Average: 3.9 / 4.0

• Relevant Coursework: Distributed Computer Systems, Operating Systems, Design and Analysis of Algorithms, Software Security and Exploitation, Data Structures and Algorithms, Software Engineering, Database Management Systems, Artificial Intelligence

Skills _

Languages C, Go, Java, Python, JavaScript, x86, SQL, TLA+, Alloy, HTML, CSS

Experience _____

Ansatz Capital

New York, NY

Software Engineer September 2019 - Present

Two SigmaNew York, NYSoftware Engineering InternSummer 2018

· Worked as a software engineer on the High-Frequency Order Management team

- Engineered the core components of a distributed stream processing framework for Two Sigma's trading records
- Developed in C to meet the strict latency requirements of downstream consumers
- · Enabled real-time reporting of trading events

Blend San Francisco, CA

Software Engineering Intern

Summer 2017

- · Worked as a software engineer on the Lending Platform and New Business Initiatives teams
- · Developed and shipped support for home equity loans, the second loan type to be added to Blend's platform after mortgages
- · Contributed to Blend's shift to a multi-tenant deployment architecture
- · Refactored Blend's use of Amazon SQS to allow for the consolidation of low-priority asynchronous workers
- · Gained experience with Node.js, MongoDB, AngularJS, and React

Brown University Department of Computer Science

Teaching Assistant - CSCI 1670

Providence, RI

Spring 2019

Topics covered include operating system design and development

Head Teaching Assistant - CSCI 0330

Fall 2018

- Assist Professor Thomas Doeppner in instructing and administering CSCI 0330: Introduction to Computer Systems
- Hire and manage a staff of 34 teaching assistants

Teaching Assistant - CSCI 1380

Spring 2018

· Topics covered include the foundations of distributed computing and the design and development of distributed systems

Teaching Assistant - CSCI 0330

Fall 2017

· Topics covered include C, x86 assembly language, and computer architecture as well as networking and concurrency

Teaching Assistant - CSCI 0150

Fall 2016

· Topics covered include object-oriented design, Java programming, and fundamental data structures and algorithms

Projects _____

Weenix

Implemented the essential components of a Unix-like operating system, including the thread and process constructs, scheduler, terminal line discipline, virtual file system, disk-based file system, and virtual memory manager.

PuddleStore

Designed and developed a fault-tolerant, strongly consistent distributed file system. Written in Go, it uses Apache ZooKeeper as a membership server, Tapestry to store blocks, and the Raft consensus algorithm to commit changes.