

Isaac Duarte

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OBJECTIVE

Seeking a full time job opportunity that will allow me to utilize and further my problem solving, algorithm design, and team skills to continue developing my abilities in Computer Science.

EDUCATION

Stony Brook University, Stony Brook NY

Bachelor of Science in Computer Science and Mathematics, May 2020 GPA 3.67

Honors: AP Scholar with Distinction Award, 2016, Stony Brook Dean's List (2016 -Present)

EXPERIENCE

Amazon, Seattle WA - *SDE Intern*, May 2019 - Aug 2019

Added feature to vendor site and oversaw it's full development lifecycle, (i.e. designing, development, deployment and testing from backend to frontend). Gained first hand experience working as a full stack SDE in the cloud computing tech environment, by learning tools on the job, using them daily, and participating in team/corporate meetings to ensure the success of our product and the health of our distributed systems.

Stony Brook University, Stony Brook - *Teaching Assistant*, Jan 2019 - May 2019

Teaching Assistant for CSE 320 (System Fundamentals II). Responsible for constructing unit tests for homework in C using the Criterion unit testing framework in addition to holding office hours to be available to provide assistance to a large class of students (134).

PROJECTS

- [StackTraceException \(Spring 2019\)](#): Course project for CSE 356 Cloud Computing. Consisted in creating a clone of StackOverflow from scratch that can handle 2000 concurrent users with a fully functioning user interface.
- System Fundamentals II Various Assignments in C (Spring 2018): [LinkedList](#), [Memory Defragmentation](#), [Semaphores and Threads](#)
- [Nonogram](#) game utilizing electron, node.js, and python for the SBUHacks 2018 Hackathon.
- System Fundamentals 2048 Assignment (HW4 Fall 2017) in MIPS Assembly: [CSE220Project](#)
- Computer Science III Course Project (Spring 2017): *Design and Develop a *Course Site Generator Application* using JavaFX, given an IEEE compliant SRS as well as create the System Design Description (Spring 2017) [Course Site Generator](#)

Independent Projects

[Sudoku](#) using JavaFX; [Snake](#) using Java AWT/Swing; [Pong](#) using Java AWT/Swing; [Discord Bot](#) using the Java Discord API, and google speech and search APIs.

SKILLS

- Proficient in Java, JavaFX, Python, C, MIPS Assembly, Git, Terminal, Haxe, CSS, and HTML.
- Comfortable working on enterprise applications and overseeing the full development lifecycle of a project.
- Well versed in JavaScript, NodeJs, Electron, JSP, and other front end technologies as well as DevOps tools
- Quick to adapt and integrate into new environments.
- Skilled with Distributed Computing applications involving MongoDB, Cassandra, Memcached, Nginx and others
- Extensive experience with operating systems, and Windows, Linux/Unix, and Mac environments
- Fluent in Spanish and English.
- Mathematics i.e. Calculus, Statistics, Probability, Combinatorics, Computational Geometry, etc.

COURSEWORK

Finite Mathematical Structures; Linear Algebra; Discrete Mathematics; Calculus BC/III; System Fundamentals I/II; Operating Systems; Design Patterns; Intro to Theory of Computation; Computer Networks; Analysis of Algorithms; Computational Geometry; Data Structures; Survey of Probability and Statistics; Technical Communications; Natural Language Processing; Applied Algebra; Cloud Computing; Applied Complex Analysis; Analysis in Several Dimensions; Principles of Programming Languages; Software Engineering.