Armaan Lala

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EDUCATION

Georgia Institute of Technology, College of Computing, College of Sciences   Atlanta, GA
Bachelor of Science in Computer Science   Expected May 2023
Concentration: Intelligence + Systems and Architecture
Bachelor of Science in Mathematics
GPA: 3.95/4.00

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, Java, TypeScript/JavaScript (React.js + Vue.js), C#, C, Swift, ARM Assembly, MIPS Assembly, Bash
- **Technologies**: Git, Node.js, Electron.js, Jupyter, MongoDB, TensorFlow, Docker, Unix, Visual Studio Code, Android Studio, XCode, LaTeX, Firebase, Raspberry Pi
- **Relevant Courses**: Advanced Linear Algebra, Intro to Artificial Intelligence, Intro to Computer Vision, Systems and Networks, Computer Organization and Programming, Data Structures and Algorithms, Design and Analysis of Algorithms

EXPERIENCE

NCR Corporation   Atlanta, GA
Software Engineering Intern   May 2021 – August 2021
- Designed a React.js web-app to be able to monitor the status and health of all Point-Of-Sale (POS) systems throughout the country, with integration for RabbitMQ metrics to better monitor performance
- Modified an existing C# REST API to increase performance, decreasing load times from 5 minutes to 4 seconds
- Overhauled server-side performance analytics, decreasing total response times from 4.5 minutes to 3.8 milliseconds
- Implemented an Android WebView container to display POS systems running on Store servers. Established WebSocket connections in order to relay barcode data from the Android device to the POS

Georgia Tech College of Sciences' Academic and Research Computing   Atlanta, GA
IT Student Worker   August 2020 – May 2021
- Diagnosed hardware, software, and network problems, configuring, installing, and maintaining laptops, workstations, and servers
- Performed maintenance on all different operating systems used at Georgia Tech from, RedHat Linux, Windows, to MacOS
- Developed a Docker Container to convert Markdown documentation files into a Single-Page-Application using Eleventy.js that is hosted on GitHub Pages

The Coder School   Roswell, GA
Code Coach   March 2018 – May 2019
- Instructed kids between the ages of 8 –16 various aspects of programming along with the syntax of either Scratch or Python
- Led summer classes in programming with class sizes up to 20 students
- Taught 1–on–1 private lessons focusing on fundamental programming skills in Python and Java

PROJECTS

LAsh – Lala Armaan Shell
Personal Project   June 2021
- Designed LAsh, a C++ shell that allows for direct communication with the computer's operating system
- Built as a lightweight replacement of Bash that can be run on almost any Unix system
- Implemented standard features such as, piping, fork/exec, subshells, job control, multiline inputs, and PATH searching

PicselAR – 1st Place Facebook SparkAR Challenge
HackGT 7   October 2020
- Worked on PicselAR, an augmented reality application designed to hide and obscure the user's background in order to maintain privacy while people work from home to due to COVID-19
- Developed the entire SparkAR patch sequence and wrote all the JavaScript code to analyze the camera feed of the user and isolate the faces away from the background

FireEmblem2110
Class Project   July 2020
- Developed FireEmblem2110, a fully functional Gameboy Advance Game, using C and the TONC GBA documentation
- Created a fully functional game with multiple enemies and lives, with certain win and lose conditions and animations
- Wrote a docker image to be able to containerize and run on various devices

invEZ – Runner Up BlackRock API Challenge
UGA Hacks 5   February 2020
- Designed invEZ, a web app to get people started in investing and provides clients with a portfolio of stocks tailored around their interests
- Programmed using Vue.js and Express.js for both back–end and front–end development