Ishan Arya

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Objective

To obtain a full-time job as a software engineer that will enhance my knowledge of low-level programming.

Education

Georgia Institute of Technology, Atlanta – 3.87 GPA   August 2018 - May 2022

Bachelor of Science in Computer Science

- Relevant Courses: Data Structures & Algorithms, Systems & Design, Computer Architecture, Stats & Prob

Skills

- Familiar Programming Languages: Java, JavaScript, Python, C, Go, C++, Bash, VHDL/Verilog, Kotlin, and Scala
- Experience with Node, Kubernetes, Azure, OpenCV, Agile, Google Cloud Platform, Docker, Jenkins, React, Git, Electron, NumPy, Pandas, Spring Boot, Heroku, Prometheus, Android, SQL, MongoDB, and Arduino

Work/Extracurricular Experience

Facebook - Digital Commerce

Software Engineering Intern   September 2021 - December 2021

Microsoft - Azure Kubernetes Service

Software Engineering Intern   June 2021 - CURRENT

- Designed and built a diagnostic tool to pinpoint DNS issues in managed Kubernetes clusters with low privilege
- Combined low level Linux tools with diverse Kubernetes configurations to create a comprehensive test suite
- Worked with stakeholders across the org to create customer facing tools for deployment and feedback

Software Engineering Intern   May 2020 - July 2020

- Implemented autoscaling based on custom metrics to limit high levels of saturation and reduce resource usage
- Pushed bug fixes to open-source production applications while responding to real time feedback from end users
- Learned how to deploy and manage large Kubernetes clusters in a scalable, secure way

Robotics (FIRST Tech Challenge)

Team Coach   August 2020 - May 2021

- Mentored a high school robotics team in building and programming a competitive robot
- Fostered a culture of growth and collaboration, empowering teams to work alongside competitors
- Taught students with minimal coding knowledge about control systems, computer vision, and version control

The Home Depot

Orangeworks Research Intern   January 2019 - December 2019

- Researched the applications of various technologies in aiding with daily tasks for Home Depot employees
- Processed barcode data using video feeds from a drone to autonomously conduct inventory in stores
- Used OpenCV to identify, refine, and extract item data from the low-resolution barcode images

Software Engineering Intern   May 2019 - August 2019

- Implemented a scalable database abstraction layer on top of MySQL to securely query production data
- Used NLTK to transform natural language into generic SQL statements with multiple clauses
- Developed better communication skills by explaining new tools and design patterns to my partners and manager

Side Programming Projects

Finterest (Python, JavaScript, and MS Azure)

HackGT - won 2 sponsor prizes and top 8 overall   October 2020

- Created a Chrome extension to ease the complexity of financial articles for novice traders
- Used natural language processing to define financial jargon and create summaries for the articles
- Provided a brief analysis and a graph of price fluctuation from extracted stock tickers using data from BlackRock

Beacon (Android, Java, and Kotlin)

Home Depot Hackathon - won 1st place   September 2019

- Led a team of 5 in creating an indoor navigation app using Bluetooth beacons for department stores
- Aggregated and normalized data from beacons and helped users navigate pre-generated maps
- Became versed in Android mobile development and the application lifecycle