

Ishan Arya

13 Karen Place
Edison, NJ 08817

U.S. Citizen
ishanarya.com

(732) 310-9043
iarya@gatech.edu

Objective

To obtain a summer 2021 internship as a software engineer that will enhance my knowledge of backend services.

Education

Georgia Institute of Technology, Atlanta – 3.81 GPA

August 2018 - December 2021

Bachelor of Science in Computer Science

- Relevant Courses: Data Structures & Algorithms, Systems & Design, Computer Organization & Programming

Edison High School, Edison – 4.0 GPA

September 2014 - June 2018

Skills

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

Work/Extracurricular Experience

Microsoft - Azure Kubernetes Service

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

The Home Depot

Orangeworks Research Intern

January 2019 - CURRENT

- 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

Summer 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

Robotics (FIRST Tech Challenge)

Captain/Lead Programmer

September 2014 - June 2018

- Competed in an international competition by building and programming a robot
- Programmed the robot for automated routines based on sensors and manual routines based on driver input
- Organized meetings, fundraising events, and community outreach activities

Side Programming Projects

Finterest (Python, JavaScript, and MS Azure)

HackGT - won 2 sponsor prizes and top 8 overall

October 2018

- 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 2018

- 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

IsThatGuyInMyClass (HTML/CSS, NodeJS, Java, and Selenium)

Personal project to facilitate a repetitive task

August 2017 - June 2018

- Led a team of 3 in creating a website to show students who would be in their classes for the coming semester
- Learned about securing login with JSON tokens, storing data with MongoDB, and scraping info using Selenium
- Successfully received and supported over 400 users (more than 20% of the school population)