

Rayhan Biju

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Education

Virginia Tech

Bachelor of Science in Computer Science

GPA: **3.83**

Blacksburg, VA

Expected Graduation Date: May 2024

Technical Skills

Languages: Java, Python, React, Kotlin, Go, JavaScript

Tools: Android Studio, Git, Flask, AWS DynamoDB, GCP App Engine, Firebase, Spring Boot, Maven, PostgreSQL

Frameworks: Agile Software Development, MVC Architecture, Serverless Architecture

Technical Experience

Capital One

June 2022 - Present

Software Engineer Intern

McLean, VA

- Leverage Go to develop REST APIs using the gin framework to improve API response times by 30% and update API documentation using Swagger
- Rewrite legacy enterprise API gateway application for an SSO system using OAuth 2.0, Spring Security, and Spring Boot with Java, eliminating 100% of the deprecated libraries
- Achieve 100% code and integration testing coverage with Junit and Mockito
- Lead 4 other interns to deploy application through Jenkins on AWS EC2

Virginia Tech

August 2021 - Present

Undergraduate Researcher

Blacksburg, VA

- Implement REST APIs and unit testing suites using Python, Flask, SQLAlchemy, and pytest

Virginia Tech

August 2021 - May 2022

Undergraduate Teaching Assistant (Data Structures and Algorithms)

Blacksburg, VA

- Mentored and assisted students with coursework in data structures and algorithms for a class of 500+ students entirely in Java
- Promoted test-driven development, code efficiency, and object-oriented design to students

BusySquirrels

January 2021 - May 2021

Software Development Intern

Remote

- Developed Python based web crawlers using the Scrapy, BeautifulSoup, and Python Requests libraries and spearheaded a team of 3 - 5 other interns to increase the number of department stores crawled by 380%
- Leveraged AWS DynamoDB, Python, Flask, and React to develop REST APIs, front-end, and back-end infrastructure to accommodate summarized reviews for 30,000 products from Walmart
- Designed and programmed anomaly detection service to notify administrators when any one of the 50 web crawlers fails using DynamoDB Streams, AWS Lambda, and Python

Projects

TV Series Alert Full Stack Web App | *Python, Go, Flask, Firebase, GCP, BootStrap*

May 2021 - July 2022

- Built Flask based web app to notify users when their favorite TV series seasons come out asynchronously
- Manipulated the IMDB REST API, SendGrid's Email API, Flask, Python, Firebase, and SQLAlchemy for the back-end and BootStrap and JavaScript for the front-end
- Deployed website application to the cloud through Google App Engine on GCP
- Developed an API using Go to provide new metrics to the front-end and to increase back-end response times

Awards

Capital One SES Hackathon

January 2022

- Won 2nd Place in a Capital One Hackathon with a finance Discord bot and a connected web app to improve financial literacy
- Collaborated with 4 other team members using GitHub, Python, the Discord API, NLTK, and Firebase for the Discord bot and Bootstrap, JavaScript, Flask, Heroku, and Firebase Realtime Database for the web app