Anirudh Sriram

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EDUCATION

Campbellsville University, Campbellsville, KY	March 2024

Master of Science in Cloud Computing

University of Chicago, Chicago, IL	March 2021
Master of Science in Computer Science	GPA: 3.514
Boston University, Boston, MA	May 2019

Bachelor of Science in Computer Engineering; Minor: Mathematics

Awards

Presidential Scholar (BU): Awarded to selected incoming students for outstanding academic achievement & leadership

The Student Leader Award (BU) – Outstanding leadership at College & University

Relevant Coursework

Software Engineering, Cloud Computing, Microservices & Container-based Software Development, Object-Oriented Programming, Databases, DevOps, Cloud Security, Web Development, Product Management, UI/UX Design, Machine Learning, High-Performance Programming, Computer Networking, Advanced Algorithms, Computer Security, Computer Systems.

TECHNICAL SKILLS

Skills: Python, JavaScript, HTML5, CSS3, C, C++, R, SQL, MySQL, PostgreSQL, SQLite, NoSQL, MongoDB, DynamoDB

Frameworks: Flask, React JS, Bootstrap

Other: AWS, Serverless, Microservices, Linux, Git, JIRA, Rest API's, MaterialUI, JSON, Docker, RabbitMQ, Bash, Pytest, Unittest

PROFESSIONAL EXPERIENCE

Beats Health - Chicago, IL	March 2020 – Jan 2022

Software Engineer *(Technologies: Python, AWS, React, HTML, CSS, JS)* Backend: 60% Frontend: 40%

- Founding team member of startup created through a Venture Challenge at University of Chicago Booth School of Business.
- Implemented a python-flask application to determine primary health diagnosis (~70% accuracy) and extract ICD-10 codes for billing (100% accuracy) from physician post-visit medical summary. This is achieved using in-house ML algorithms and NLP. This reduces processing time by automating the prediction of these codes, while also reducing errors for medical coders and billers. Poor coding processes cost hospitals in the US close to $125 billion every year. Data is converted to HL7 format to integrate with EHR/EMR systems such as EPIC.
- Developed React front-end components for the Beats Health Patient Insurance Eligibility Verification Platform. The platform saves hours of time for hospitals by verifying insurance details through a photo of the patient's insurance card in a 5-minute process, by extracting text from the insurance cards, and sending relevant data to an API calculating eligibility & benefits.
- Developed serverless Lambda functions for platform backend, creating efficiency using a microservice architecture.
- Integrated insurance eligibility platform with REST based Stripe APIs for enabling customer billing.
- Proved interoperability & integration capabilities with hospitals using FHIR data format during FHIR Connectathon 28 event.
- Created software architectures & UI Prototypes with CTO, to enable better designs, and a scalable & efficient architecture.

Boston University (Computer Networks & Deadlocks) - Boston, MA	May 2018 – May 2019

Research Assistant *(Technologies: R)*

- Proved by implementation and testing of 700 randomized graphs that algorithms designed by the research advisor, EDA & SCB algorithms, outperform older Tree-Turn & UDA algorithms, known to enable connectivity in networks.
- The algorithms break cycles and enable connectivity, by prohibiting certain turns for message routing.
- Achieved average reduction of 37% & 59% in fraction of prohibited turns, indicating faster message delivery times.

PROJECTS

Microservice-based Auction System (Container-based Software Development) (Tech: Python-Flask, MySQL, RabbitMQ, MongoDB, HTML, CSS, JS, Docker)

- As a team, implemented a full-stack web auction system through a microservice-based architecture, separating functionality for auctions, buyers, sellers & administrators - each microservice allocated to one member of the team.

Cloud-based Genomics Annotator Service (Cloud Computing) (Tech: AWS, Python-Flask)

- Built a Flask web application which performs annotation services for genomics file inputs using AWS services such as EC2, S3, DynamoDB, SQS, SNS, Glacier, SES, & maintained performance with scaling through AWS Auto Scaling & Cloudwatch.

College Course Reservation Application (Object Oriented Programming & Unit Testing) (Tech: Python, MySQL, SQLite, MongoDB)

- Designed the architecture for a course reservation application for students, instructors & college administrators.
- Implemented various OOP principles & the mediator pattern to separate functionality & enabled unit testing.

Physician Clinical Documentation User Interface Prototype (UI/UX Design) (Tech: Figma, InVision)

- Implemented a clinical documentation app prototype applying principles for easy user on-boarding, accessibility, user retention & other design principles for a clinical documentation tool using Figma & InVision, through researching physician needs.