**ANIRUDH SRIRAM**

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**Software Engineer**

Software engineer with two years of experience in cloud-based application development, with experience in various ends of the stack, and specifically in cloud-based deployments using AWS. Strong architectural and object-oriented development knowledge aimed at improving performance, scalability and cost-effectiveness of applications.

Object Oriented Python ∙ Flask ∙ React ∙ HTML ∙ CSS ∙JS ∙ AWS Cloud Technologies ∙ Microservices ∙

Serverless ∙ Testing ∙ SQL ∙ NoSQL∙ Containerization ∙ Code Refactoring

**Languages:** Python, R, C, C++, Node.js

**Web:**  React, HTML5, CSS3, JavaScript, TypeScript, Bootstrap

**Web Services:** REST APIs

**Web/App Servers:** RabbitMQ

**Frameworks:** Flask, Swagger, Angular, Express, Pytest, Unittest

**Databases:** MySQL, SQLite, MongoDB, PostgreSQL, DynamoDB

**SDLC:** Waterfall, Agile, TDD

**Tools:** Visual Studio Code, Git, GitHub, Docker, Postman, npm, Jira, ELK stack AWS (EC2, S3, DynamoDB, SQS, SNS, Glacier, SES, Lambda, API Gateway, Auto Scaling, CloudWatch), Slack

**Platforms:** Linux, macOS, Windows

**PROFESSIONAL EXPERIENCE**

**Winverve - End Client: FLSmidth Washington DC, USA - August 2023 – Now**

Software Consulting Company

**Software Engineering Intern**

**Tasks Performed:**

* Contributing to development of cost & price application platform, which consolidates price for different physical equipment sold by FLSmidth for construction & mining, based on individual parts, & accommodating price variance in regions.
* Integrating Google OAuth into Angular interface
* Once integrated, JSON Web Tokens will be created to authenticate & authorize users to view parts of the platform, based on their privileges.

**Achievements**

* Increasing time efficiency for FLSmidth by 40%, by eliminating manual calculation of these prices.

***Technologies Used:*** *MongoDB, Express, Angular, Node.js*

**Beats Health Chicago,IL USA ∙ March 2020 – January 2022**

Health Technology Startup

**Software Engineer & Founding Member**

**Tasks Performed:**

* Founding team member of the startup through New 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.
* Used in-house ML algorithms and NLP for the predictions
* 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.
* 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.
* Used GitHub for source code management.

Achievements

* Achieved 70% and 100% accuracy, respectively, for predicting the primary health diagnosis & ICD-10 codes for improving accuracy in medical billing. 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.
* The Beats Health Patient Insurance Eligibility Verification Platform 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.

***Technologies Used:*** *Python, AWS, React, HTML, CSS, JS*

**Boston University , Boston, MA, USA ∙ May 2018 – May 2019**

**Research Assistant**

**Research Area: Computer Networks**

**Tasks Performed:**

* 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.

Achievements

* Achieved average reduction of 37% & 59% in fraction of prohibited turns, indicating faster message delivery times.

***Technologies Used:*** *R*

**EDUCATION**

**Master of Science in Cloud Computing - 2024**

Campbellsville University – KY – USA

**Master of Science in Computer Science - 2021**

University of Chicago – IL – USA

GPA: 3.514

**Bachelor of Science in Computer Engineering - 2019**

Boston University – MA – USA

Presidential Scholar