Siddharth Venkatraman

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EDUCATION

Texas A&M University   **College Station, Texas**
Bachelor of Science in Computer Science | GPA: 3.76   *May 2024*

- **Relevant Coursework:** Data Structures and Algorithms, Computer Organization, Analysis of Algorithms, Machine Learning, Artificial Intelligence, Discrete Structures in Computing, Data Science, Linear Algebra
- **Awards:** National Merit Scholarship, Craig and Galen Brown Foundation Scholarship (Full-Tuition), President's Endowed Scholarship, Dean's Honor Roll, TamuHack 2024 1st Place
- **Leadership:** MSC Abbott Leadership Conference Delegate, Aggie Club of Engineers Service Chair, Freshman Leadership Organization Zone Leader, Freshman Orientation Camp Counselor

SKILLS

Technical: Python, Java, C++, C# .NET Framework, AWS Lambda, DynamoDB, React, JavaScript, Jira, Git
Certifications: Google Cloud Platform Cloud Engineer

WORK EXPERIENCE

Charles Schwab
Software Engineer, June 2024 – Present
Software Engineering Intern, June 2023 – August 2023

- Enhanced automation testing accuracy by **80%** on the trading system to create more precise validation
- Analyzed and optimized test assertions in over **200** test cases to improve the efficiency of regression testing
- Automated regression testing for the Mutual Fund Legacy Bridge using **.**NET Framework, which decreased overall testing time and improved time to market by **3 weeks** for the Trading Technologies Team
- Built version control tools to streamline environment management between production code and releases
- Placed 1st in the Schwab Business Challenge Summit, designed User Interface for team's final product

NBCUniversal | Peacock
Software Engineering Intern (Peacock), September 2022 – December 2022
Software Intern (NBCUniversal), June 2022 – August 2022

- Developed framework for detecting expired GPG keys using Python to improve database security by **40%**
- Created automation pipelines for file management in order to decrease manual efforts by **30%**
- Applied project management principles through Agile Development and the Jira tracking suite

NOTABLE PROJECTS

AggiePasses (16,000 Users)
ReactJS, AWS DynamoDB, AWS Lambda | https://aggiepasses.com

- Built a dynamic sports pass resale platform using React, allowing users to easily create and remove listings
- Leveraged DynamoDB and AWS Lambda Functions to provide efficient data management and real-time post updates to deliver an engaging experience at scale to over **16,000 users**

The NBAI Show
OpenAI GPT, Python, AWS (Dynamo, Lambda, EC2, S3), GCP, ReactJS | *https://nbai-show.vercel.app*

- Created an automated web application that generates and uploads daily NBA podcasts, leveraging the GPT Model for script generation, Google Cloud Text-to-Speech for narration, and ReactJS for the frontend
- Streamlined podcast production and hosting by utilizing AWS DynamoDB and S3 for data storage and retrieval while deploying the Python script on an EC2 Ubuntu instance to run as an automated CRON job

Chilifest Music Festival Ticket Resale Website (11,000 Users)
Node, Express, ReactJS, JavaScript, AWS EC2, PostgreSQL, CSS | https://chilifestbuilds.com

- Developed a full-stack application using a React frontend, Express backend, and AWS EC2 for hosting
- Enabled over **11,000 users** to create, manage, and delete posts for buying and selling tickets