Vishnu Vantukala

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SUMMARY

Results-driven Software Engineer (3+ years experience) with expertise in distributed web services, Full-stack development, API development, and Data Analysis. Proficient in AWS, Docker, Java, Python, C++, Agile, and Git. Skilled in building engaging UIs, owning projects from start to finish, and collaborating with cross-functional teams. Experienced in Computer Science fundamentals, Object-oriented programming, and Agile Methodologies. Seeking a challenging role in developing software at scale. Graduating in December 2023.
Portfolio Website: https://vishnuvantukala.com

EDUCATION

M.S. Computer Software Engineering Expected December 2023
Arizona State University, Tempe, AZ 4.11/4.00 GPA

B.S. ECE August 2015 - May 2019
National Institute of Technology, Warangal, India

TECHNICAL SKILLS

Programming Languages: Python, Go, Java, JavaScript (ES6), Typescript , C, C++, Bash, Swift
Front-End: HTML, CSS, React.JS, Bootstrap, NextJS, TailwindCSS
Tools, Databases, Cloud, and OS: AWS, Azure, Google Cloud, Node.JS, MySQL, PostgreSQL, Docker, Git, GitHub, Windows, MacOS, Linux/Unix, Django, Jupyter Notebook, Android Studio, Jira, BitBucket, VSCode, MVC, Microservices, Agile (Scrum), Postman and more

PROFESSIONAL EXPERIENCE

Amazon: Software Development Engineer June 2021 - July 2022 (1.2 years)

- Designed, developed, deployed and maintained scalable microservices for core functionality of the Alexa data services platform using Java, Python, and AWS utilizing design patterns.
- Integrated an ETL pipeline into Alexa data services through APIs and event handlers using AWS Glue.
- Published Real-Time Metrics of the Ensemble ML model to databases using Java, SQL, etc involving Real-time visualizations.
- Contributed to the development of AWS SageMaker Ground truth orchestration service using Python, Typescript, and AWS.
- Implemented distributed web services using AWS cloud-based platform to produce stable and performant systems.
- Participated in object-oriented design reviews, analysis of Software architechture and presented proof-of-concept presentations for Alexa data services and AWS Sagemaker Integration.
- Mentored and successfully converted two interns into full-time employees.
- Collaborated with multiple teams and provided support during On-call weeks for the maintenance of Alexa Data Service platforms.

Telstra: Software Engineer July 2019 - May 2021 (1.9 years)

- Implemented a Python-based CI/CD pipeline for automated application building, unit testing, and deployment.
- Created automated tests for functional and integration testing, and integrated them into CI/CD (Continuous Integration and Continuous Delivery) pipelines for continuous testing and deployment.
- Built a RESTful API for a Question Answering bot using the BERT model and Flask, deployed on AWS utilizing AWS API Gateway and postman for testing.
- Utilized Docker, Kubernetes, Git, and Shell scripting for containerization, orchestration, application building, software configuration management and deployment, improving efficiency by 30% and increasing system performance optimization.
- Managed AWS infrastructure using Terraform and developed GUI functions for chatbot applications using JavaScript.
- Practiced Agile methodology, particularly Scrum, collaborating with cross-functional teams to deliver software iteratively, adapt to changing requirements, and ensure timely delivery.
- Designed AI Chatbot based on stakeholder requirements.
- Conducted large-scale data analysis using Jupyter Notebook, processing gigabytes of Chatbot history to derive actionable insights.
- Integrated REST APIs, static data from Amazon S3, and AWS Lambda with chatbot applications.

RELEVANT PROJECTS

Virtual Mouse Control using Hand Gesture Recognition, *Final Undergrad Project* Spring 2019

- Developed on-screen cursor control using Computer Vision tech that involved complex problem-solving, collaborative teamwork.
- Presented and published a paper accepted by IEEEHYDCON Conference - https://ieeexplore.ieee.org/document/9242677

Mobile Application Development, *Grad Project* Spring 2023

- Created mini mobile applications as part of “SER 423: Mobile Systems” ranging from UI functionalities to Location services.
- Used Expo and Java, react-native for Android development and Swift, Xcode for IOS App development.
- Built robust and user friendly applications using native code with Javascript (ES6) at front-end and java/Swift for backend