Gautham Yerroju

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Overview

Full Stack Developer with varied experience in software development, web development, system development and data engineering. Master's in Computer Science. Desire to use best practices and an eye for UI and UX.

Skills

Programming	Python, JavaScript (ES.next), Ruby, C++, C
Databases	MSSQL, Postgres, Hive, MongoDB
Cloud (AWS)	EC2, ECS, SNS, SQS, Lambda, Cloud Formation
Web Development	Express with Node.JS, Flask with Python, VueJS, ReactJS, CSS3

Experience

Amazon Web Services
California, U.S.A

SYSTEM DEVELOPMENT ENGINEER — *Jan. 2023 - Present*

- Worked on improving and scaling Fraud Handling capabilities for AWS Glue using Cloud Formation, Lambdas, ECS and various other AWS services.
- Worked in the team responsible for providing compute resources to customer-facing services with varying usage and latency profiles.
- Was responsible for security patching VM fleets hosting APIs used in client-facing services including AWS Glue.
- Worked on automating the process of bringing up services for a new AWS region. This includes building infrastructure, deploying services and tests, and setting up alarms and health monitoring using various AWS services.
- Worked in a heavy CI-CD environment, managed multiple pipelines and made many deployments while following Change Control protocols.
- Collaborated daily with engineers and TPMs from multiple global teams.

Astreya Partners LLC (at Meta)
California, U.S.A

DATA ENGINEER III — *Sep. 2021 - Dec. 2022*

- Created and maintained optimal data pipeline architecture.
- Designed and implemented internal process improvements: automating manual processes, optimizing data delivery, redesigning infrastructure for scalability.
- Set up optimal extraction, transformation, and loading of data from a wide variety of data sources.
- Built analytics tools and dashboards to provide actionable insights into network capacity utilization and demand forecast across multiple dimensions.
- Worked with stakeholders including the Executive, Product and Data teams to assist with data-related technical issues and support their data infrastructure needs.
- Worked on communicating requirements between stakeholders and technical teams.
- Organized large tasks into phases and practiced Agile workflow to deliver value to stakeholders.

FleetCor Technologies, Inc.
California, U.S.A

FRONT-END DEVELOPER — *Sep. 2020 - Sep. 2021*

- Worked with a global product team to develop an online credit card management system.
- Owned components of a comprehensive in-house JavaScript front-end framework written using ES6 as a Progressive Web App.
- Worked on core JavaScript framework team on designing and building a reactive front-end framework (similar to ReactJS) and refactoring legacy code to be maintainable and scalable.
- Collaborated with design, back-end, API, network and QA teams on a daily basis to work on and deliver value in quick iterations.
- Followed the Scrum Agile process for collaboration and timely delivery of milestones.

Odoo Inc.   *California, U.S.A*

Full Stack Developer   *Oct. 2018 - Jan. 2020*

- Designed, developed and maintained custom business solutions for clients using open-source business software framework Odoo
- Worked as part of cross-functional team of business advisors, clients and other developers
- Attended weekly meetings with clients to solve technical roadblocks and serve as a subject matter expert
- Migrated data and code for multiple clients from legacy systems into newer versions of Odoo
- Participated in weekly code reviews, adhering to and promoting good coding standards
- Independently managed projects in Kanban workflow, took ownership of modules and delivered quality solutions
- Gave a talk on Odoo's External API at the annual company conference Odoo Connect
- Conducted week-long technical training sessions on the Odoo framework every quarter to a multi-national cross-domain audience, generating a revenue of $5,000 per attendee to the company
- Brought in an yearly revenue of over $100,000 to the company through time billed, including monthly recurring revenue

University of Nevada, Reno   *Nevada, U.S.A*

Research Assistant, Advised by Dr. Feng Yan   *Aug. 2016 - Oct. 2018*

- In collaboration with **NetApp, Inc.** - Extreme scale storage failure analysis: a spatial-temporal approach
- Analyzed disk failures in real-world big data storage systems on a one-year data set
- Performed spatial and temporal characterization of various failure types
- Used conditional probability and Markov-chains to predict disk failures
- Tested prediction algorithms on real data through a custom-built simulator and analyze their accuracy

CA Technologies   *Telangana, India*

Full Stack Web Developer   *Dec. 2015 - Jul. 2016*

- Designed and built a web application from ground up to publish quarterly surveys and aggregate results on a dashboard
- Solely responsible for requirements analysis, design, development, testing and deploying the project
- ExpressJS with Node.js and Mongoose with MongoDB, with Active Directory for authentication and role management to integrate with existing infrastructure
- Role-based access control based on Active Directory roles
- ReactJS front-end with performant SCSS and CSS3
- Learned all the required tools and implemented the application in a few months, following best practices (mostly from the 12-factor app paradigm)

FactSet Research Systems   *Telangana, India*

Senior Engineer   *Jul. 2011 - Nov. 2015*

- Developed and maintained a framework using IBM STAF and Python on which automated tests can be scheduled, their results stored and sent to test owners
- Integrated the framework with other internal tools using SOAP and REST APIs
- Worked on developing a web application to schedule tests and view results (PHP, MSSQL and jQuery)
- The developed test automation framework replaced most of the manual testing team's man-hours, freeing them to test for more elusive bugs and dramatically increase product coverage
- Was awarded the "Star Performer" yearly award three times
- Was consistently rated 'Exceeds Expectations' or 'Outstanding' in every half-yearly review
- Presented work-related topics to the team every two weeks in order to improve collective knowledge
- Interviewed and trained new hires for the team on required tools, technologies and workflows

Education

University of Nevada, Reno   *Nevada, United States*

MSc., Computer Science and Engineering   *Aug 2016 - Aug 2018*

Jawaharlal Nehru Technological University Hyderabad   *Telangana, India*

BTech., Computer Science and Engineering   *Mar 2007 - Apr 2011*

Personal Projects

Personal website and blog

GAUTHAMYERROJU.COM ⬀

- Hand-made CSS for home-page built to be responsive and performant
- Blogging workflow with GitHub pages and Prose.io

Slidey: CSS-only slider menu for websites

GAUTHAMYERROJU.COM/SLIDEY ⬀

- Simple and performant sliding menu for websites
- Case study on CSS3 features and BEM syntax

Open-source Keyboard Firmware

GITHUB.COM/GAUTHAMYERROJU/QMK_FIRMWARE ⬀

- Contributed fixes and feature enhancements to the QMK custom keyboard firmware
- Embedded programming in C, working within limitations of low memory and CPU
- Contributed light-weight OLED animations and HID device features like rotary encoders and joysticks

Open CV: Face counting in panning video

COMPUTER VISION

- Used Open CV to implement face counting in a panning video
- Used frame stitching followed by Haar cascades to detect and count faces