

Gautham Yerroju

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Full-Stack Engineer | Cloud Applications Engineer | Software, Web & Systems Developer | Data Engineer

KNOWLEDGE & TECHNICAL SKILLS

I am a generalist with over 10 + years of experience in Software Engineering, Web Development, Cloud (AWS), System Development, and Data Engineering. I adapt to job requirements quickly and implement systems that are polished, well-documented, maintainable.

Cloud (AWS): Cloud Formation, Lambda, EC2, ECS, DynamoDB

Web Development: Serverless (AWS), NodeJS, Angular, Vue, React

Programming: Python, Java, JavaScript

Databases: MSSQL, Postgres, Hive, MongoDB

PROFESSIONAL EXPERIENCE

Amazon Web Services, CA

01/2023 to Present

System Development Engineer L5

- Enhanced and scaled Fraud Handling capabilities for AWS Glue using CloudFormation, Lambda, ECS, and several other AWS services.
- Worked on providing compute resources to customer-facing services on a scale of over 100,000 instances per day, with multiple usage and latency profiles.
- Owned security patching VM fleets used to host internal APIs for AWS Glue.
- Worked on automating deployment of AWS Glue service to new AWS regions by building infrastructure, deploying services and tests, setting up alarms, and monitoring health.
- Worked in a robust CI/CD environment, managing multiple pipelines and executing deployments.
- Collaborated daily with engineers and TPMs from multiple global teams.

Astrea Partners LLC (at Meta), CA

09/2021 to 12/2022

Data Engineer III

- Designed and implemented internal process improvements: automated manual processes, optimized data delivery, and redesigned infrastructure for scalability.
- Set up optimal extraction, transformation, and data loading from various data sources.
- Developed analytics tools and dashboards to deliver actionable insights into network capacity utilization and demand forecasts across various dimensions.
- Collaborated with stakeholders to resolve data-related issues and support infrastructure needs.

FleetCor Technologies Inc., CA

09/2020 to 09/2021

Front-End Developer

- Worked on creating an online credit card management system, enhancing user experience and streamlining workflows.
- Owned components of an in-house JavaScript front-end framework using ES6 as a Progressive Web App.
- Streamlined Login and New User Registration workflows using OAuth.
- Contributed to the core JavaScript framework team by designing and building a reactive front-end framework similar to ReactJS while refactoring legacy code to enhance maintainability and scalability.
- Worked daily with design, back-end, API, network, and QA teams to deliver results in quick iterations.

Odoo Inc., CA

10/2018 to 01/2020

Full-Stack Developer

- Designed, developed, and maintained custom client business solutions using Odoo open-source software framework.
- Migrated and onboarded data and code for multiple clients from legacy systems into newer versions of Odoo.
- Independently managed projects, took ownership of framework modules, and delivered quality solutions.
- 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.
- Presented at Odoo Connect (annual conference) about Odoo's External API.
- Brought in a yearly revenue of over \$100,000 through time billed, including monthly recurring revenue.

University of Nevada, NV

08/2016 to 10/2018

Research Assistant (Advised by Dr Feng Yan)

- Worked in collaboration with NetApp, Inc. predicting disk failures in data centers.
- Analyzed disk failures in real-world big data storage systems on a one-year time series data set.
- Performed spatial and temporal characterization of various failure types.
- Built disk failure prediction algorithms, and tested them on a custom-built simulator.

CA Technologies, Telangana, India

12/2015 to 07/2016

Full-Stack Web Developer

- Designed and built a web application to publish quarterly surveys and aggregate results on a dashboard.
- Solely responsible for requirements analysis, design, development, testing, and project deployment.
- ExpressJS with Node.js, Mongoose with MongoDB, and Active Directory to integrate with existing infrastructure for authentication and role management.
- ReactJS and Bootstrap front-end with performant SCSS and CSS3.
- Learned all the required tools and implemented the application in a few months, following best practices.

FactSet Research Systems, Telangana, India

07/2011 to 11/2015

Senior Engineer

- Developed and maintained a framework in Python to orchestrate automated test runs, view results, and send notifications.
- Integrated the framework with other internal tools using REST and SOAP APIs.
- Developed a web application (using PHP, MSSQL, and jQuery) for the QA team to schedule tests and view results.
- The test automation framework replaced over 60% of the QA team's man-hours, freeing them to look for more elusive bugs and greatly increase product coverage.
- Interviewed, trained and mentored new hires.
- Was recognized for outstanding performance in every performance review.

EDUCATION

University of Nevada, Reno, NV

2018

MS Computer Science & Engineering

Jawaharlal Nehru Technological University Hyderabad

2011

BTECH., Computer Science & Engineering

PERSONAL PROJECTS

Personal Website and blog

GAUTHAMYERROJU.COM

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

Slidey: CSS-only slider menu for websites

<https://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 | Contributed light-weight OLED animations and HID device features like rotary encoders and joysticks | Embedded programming in C, working within limitations of low memory and CPU

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