

Full-Stack Developer | Software, Web & Systems Development | Data Engineer**KNOWLEDGE & TECHNICAL SKILLS**

I am a Full-Stack Developer with over 10 + years of experience in Software Engineering, Web Development, System Development, and Data Engineering. I am passionate about using best practices and have a keen eye for user interface (UI) and user experience (UX) design. With a dynamic approach, I implement practical solutions that enhance user experiences through solid UI and UX principles.

Programming: Python, JavaScript (ESNext), Ruby, C++, C

Databases: MSSQL, Postgres, Hive, MongoDB

Cloud (AWS): S3, EC2, ECS, SNS, SQS, Lambda, Cloud Formation

Web Development: Express with Node.JS, Flask with Python, VueJS, ReactJS, CSS3

Core Competencies: Communication, Critical Thinking, Collaboration, Attention to Detail, Continuous Learning, Data Visualization, Problem-Solving, Creativity and Time Management

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 in a team responsible for providing compute resources to customer-facing services, accommodating various usage and latency profiles, dealing with a scale of well over 100,000 instances per day.
- Responsible for security patching VM fleets hosting APIs used in client-facing services, including AWS Glue.
- Automated the delivery of services for a new AWS region by building infrastructure, deploying services and tests, setting up alarms, and monitoring health using various AWS services.
- Worked in a robust CI/CD environment, managing multiple pipelines and executing deployments in accordance with Change Control protocols.
- Collaborated daily with engineers and TPMs from multiple global teams.

Astreya Partners LLC (at Meta), CA**09/2021 to 12/2022****Data Engineer III**

- Created and maintained optimal data pipeline architecture.
- Designed and implemented internal process improvements: automating manual processes, optimizing data delivery, and redesigning infrastructure for scalability.
- Set up optimal extraction, transformation, and data loading from various 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.
- Organized large tasks into distinct phases and implemented an Agile workflow to deliver results to stakeholders.

FleetCor Technologies Inc., CA**09/2020 to 09/2021****Front-End Developer**

- Collaborated with a global product team to create an online credit card management system, enhancing user experience and streamlining financial transactions.
- Owned components of a comprehensive in-house JavaScript front-end framework using ES6 as a Progressive Web App.
- 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.
- Adhered to the Scrum Agile framework, which facilitated effective collaboration and ensured the timely achievement of project milestones.

Odoo Inc., CA**10/2018 to 01/202****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 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 for the company.
- Brought in a yearly revenue of over \$100,000 to the company through time billed, including monthly recurring revenue.

University of Nevada, NV

08/2016 to 10/2018

Research Assistant (Advised by Dr Feng Yan)

- Worked on thesis for “Extreme-scale storage failure analysis: a spatial-temporal approach” in collaboration with NetApp, Inc.
- 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.
- Conditional probability and Markov chain were used to predict disk failures.
- Tested prediction algorithms on real data through a custom-built simulator and analyzed their accuracy.

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.
- Role-based access control based on Windows 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.

FactSet Research Systems, Telangana, India

07/2011 to 11/2015

Senior Engineer

- Developed and maintained a framework using IBM STAF and Python which was used by the manual QA team to schedule automated tests, view results, and get notified.
- Integrated the framework with other internal tools using REST and SOAP APIs.
- Developed a web application (using PHP, MSSQL, and jQuery) for the manual QA team to schedule tests and view results.
- The test automation framework replaced most of the manual testing team’s man-hours, freeing them to test for more elusive bugs and greatly 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 to improve collective knowledge.
- Interviewed and trained new hires for the team on required tools, technologies, and workflows.

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