Gautham Yerroju

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Overview

Software Engineer with 5+ years of experience in full stack web development and Python. Master's in Computer Science. Quick to learn new tools, desire to use best practices and an eye for UI and UX.

Skills

Web Development	Express with Node.JS, Flask with Python, VueJS with Router and VueX, React, CSS3
Programming	Python, Java, C++, C
Databases	MSSQL, Postgres, MongoDB
Frameworks and Libs	Odoo, Numpy, Pandas, Matplotlib, D3
VCS	Git, Perforce

Experience

Odoo Inc. *California, U.S.A*
SOFTWARE ENGINEER *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 Odoo's External API at yearly company conference Odoo Connect
- Conducted week-long technical trainings on the Odoo framework every quarter to a multi-national cross-domain audience (including Toyota, Japan), 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 - Aug. 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
- Spatial and temporal characterization of various failure types
- Used conditional probability and Markov-chains to predict disk failures
- Test prediction algorithms on real data through simulations and analyze their accuracy

CA Technologies *Telangana, India*
FULL STACK WEB DEVELOPER *Jan. 2016 - 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
- Used 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
- Used Material Design UI kit and subtle CSS3 animations to great effect to indicating multiple features like auto-saving, notifications and state transitions
- Learned all the required tools and implemented the application in five months, following best practices (mostly from the 12-factor app paradigm)

FactSet Research Systems *Telangana, India*
SENIOR ENGINEER *Mar. 2012 - Aug. 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
MSc., Computer Science and Engineering

Nevada, United States
Aug 2016 - Aug 2018

Jawaharlal Nehru Technological University Hyderabad
BTech., Computer Science and Engineering

Telangana, India
Mar 2007 - Apr 2011

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

VueJS web-app: Local Media Gallery
Server: NodeJS + SQLite
- Scan folders for media on-demand
- Auto-generate and cache thumbnails on-demand for images, animated GIFs and videos
- Use SQLite for persistent storage of scanned metadata

Client: VueJS + Bulma
- Single-file components with modular CSS and JS
- VueX to manage application state and Vue Router to reflect current state in URL
- Uses the Bulma CSS framework, custom performant CSS for effects and animations

Android app: Location Obfuscation
Location Privacy
- Implemented as an Android app "An Obfuscation-based Approach for Protecting Location Privacy" by Claudio et al.
- Location acquired by Google Places API, AOSP and Play Services location APIs with gracefully degrading location strategy
- The app generates an obfuscated location based on various techniques discussed in the research paper

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

References

Eyme Mathew (eymemathew@gmail.com)
VP, Associate Director, Data Governance, FactSet Research Systems

Dr. Feng Yan (fyan@unr.edu)
Assistant Professor, University of Nevada, Reno

Jigar Amin (jam@odoo.com)
Software Development Manager, Odoo Inc.