

# Gautham Yerroju

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## Overview

Full Stack Developer with around 8 years of experience in 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

<b>Web Development</b>	Express with Node.JS, Flask with Python, VueJS with Router and Vuex, ReactJS, CSS3
<b>Programming</b>	Python, Java, C++, C
<b>Databases</b>	MSSQL, Postgres, MongoDB
<b>Frameworks and Libs</b>	VueJS, ReactJS, Mongoose, Express, Numpy, Pandas, Matplotlib, Odoo
<b>VCS</b>	Git, Perforce

## Experience

### Odoo Inc.

California, U.S.A

FULL STACK DEVELOPER

Oct. 2018 - Current

- 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 - 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
- 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

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
- 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 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

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### 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

## Projects

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### 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

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### Dr. Feng Yan (fyan@unr.edu)

ASSISTANT PROFESSOR, UNIVERSITY OF NEVADA, RENO

**Eyme Mathew (eymemathew@gmail.com)**

VP, ASSOCIATE DIRECTOR, DATA GOVERNANCE, FACTSET RESEARCH SYSTEMS

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