

# GAUTHAM YERROJU



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[GauthamYerroju](https://github.com/GauthamYerroju)

## Skills

### Overview

- OOP, callback & promise paradigms
- Full stack application development
- Data wrangling and visualization
- Quick to learn new tools & workflows
- Desire to use best practices
- Tendency to read the manual
- An eye for UI and UX

### Languages and Libraries

- Languages: C, C++, Java, Python
- Databases: SQL, MongoDB
- Web: HTML5, CSS3, JavaScript, PHP, NodeJS
- Version Control: Git, Perforce
- Libraries: jQuery, Bootstrap, ExpressJS, Mongoose, Numpy, Pandas, Matplotlib
- Other: Windows Batch, PowerShell, AutoIT, AutoHotKey, Linux Shell

## Experience

- Aug 2017 - Present **Graduate Teaching Assistant** University of Nevada, Reno
- Graded programming assignments, home works and exams
  - Conducted Q & A sessions for students twice a week
  - Occasionally taken lectures
- Jan 2016 - Jul 2016 **Full Stack Web Developer** CA Technologies
- Designed and built a web application from ground up to publish quarterly surveys and aggregate results on a dashboard
  - Used NodeJS, ExpressJS and MongoDB, with Active Directory for authentication and role management
  - Learned all the required tools and implemented the application in five months, following best practices (mostly from the 12-factor app paradigm)
- Mar 2012 - Aug 2015 **Senior Automation Engineer** FACTSET Research Systems
- Worked on developing and maintaining 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)
  - Was consistently rated 'Exceeds Expectations' or 'Outstanding' in every half-yearly review
  - Was awarded the 'Star Performer' award three times during career
  - Interviewed and trained new hires for the team

## Education

- 2016 - 2018 **MSc., Computer Science and Engineering**  
University of Nevada, Reno
- 2007 - 2011 **BTech., Computer Science and Engineering**  
Jawaharlal Nehru Technological University Hyderabad

## Projects

### Academic

- **Thesis:** Extreme-scale Big Data Storage Failure Analysis (Advisor: Dr. Feng Yan): Analyze disk failures in real-world big data storage systems and build a failure prediction algorithm
- **OpenGL Game:** Sky Roads like game with Bullet physics and a custom level loader (and a level generator [↗](#)) in a team of three
- **Android Application:** Implemented Google Places API, AOSP and Play Services location APIs with gracefully degrading location strategy
- **OpenCV:** Face counting in panning video using Haar cascades and frame stitching

### Personal

- Personal website [↗](#)
- CSS-only sliding menu 'Slidey' [↗](#)
- Add-ons for RPG Maker XP [↗](#)
- 'Ship Showdown' in Python [↗](#)
- 'Breakout' using Java Swing [↗](#)