Raghav Ramesh

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I strive to build reusable things.

Work Experience

Software Engineer   **Singapore**
G Element Pte. Ltd.   *Jul 2015 - Present*
- Primary front-end and application developer for the Core Team.
- Architecting and building the web client of the company's primary product, NUCLEUS.
- Responsible for setting up a development environment and best practices during product development.
- System administrator(Linux) of the product's shared development server.
- Assisted in the release of the first desktop version of NUCLEUS.
- Created front-end prototypes for a revamped version of the main product.

Lead Software Consultant Intern   **Singapore**
K. G. Tan & Co.   *May 2014 - July 2014*
- Liaised directly with the company CEO as the lead software consultant to manage business requirements.
- Developed a web interface to analyze data on efficiency of company's auditors.
- Created a web application that automated audit cases scheduling.
- Managed the technical aspects of the hiring process for the upcoming engineering team.

Software Engineer Intern   **Singapore**
99.co, Homie.co, BillPin Pte. Ltd.   *May 2013 - Nov 2013*
- Built a user-friendly interface for the Product Manager to address bugs in the database.
- Assisted the CTO in creating a business logic JavaScript library using AngularJS aimed at reducing the overall load time of the client.
- Developed an analytics script to track the behaviour of users while creating a profile. The analysis helped reduce the drop off rate of users from 40% to 20%.
- Developed a script to optimize website performance by lazy-loading the images of the website.

Co-Founder, Tech Lead   **Singapore**
Clueless   *Jul 2014 - May 2015*
- Co-founded a service that facilitates internship opportunities for junior university students.
- Created and managed the stack from sysadmin to UX of the company website.
- Created an Angular based Front-end to show job listings to candidates.

Education

National University of Singapore   **Singapore**
Bachelor of Engineering (Honours)   *August 2011 - May 2015*
- Major in Computer Engineering
- Minor in Technopreneurship

NUS Overseas College   **Singapore, China**
Entrepreneurship Programme   *May 2013 - Jan 2014*
- Worked full-time in a start-up and obtained insights from Founders who are serial entrepreneurs.
- Travelled overseas for a study mission to Beijing, Shanghai and Suzhou to understand the market, start-up process and culture in China.

Tech Skills

- Web: JavaScript, CSS3, HTML5, Less, NodeJS, React, Redux, Angular, Python, Flask, PHP
- Java, C++
- DB: MySQL, SQLServer, MongoDB

Side Projects

- Multiplayer Card Game - Web application - written in Python, JavaScript. A socket based real-time multiplayer card game with a pre-defined set of rules built in a hackathon.
- QuickMDN – Chrome, Firefox extension – written in extension API. An extension built to increase the speed of researching JavaScript syntax, quirks and API.
- Scorecard-Scraper - written in NodeJS. A script that scrapes a cricket scorecard given the URL and computes the batting partnerships of the match.
- RunMapper - Web application - written in Python, JavaScript. A social running app that lets you create and share routes with your friends and also gives you feedback after every run built in a hackathon.
- Kwest - Web application - written in Python, JavaScript. A social challenges application that lets users create challenges for friends and rewards for completing challenges built in a hackathon.
- Slackr – Chrome extension - An extension built to increase productivity while working.

Open Source Contribution

- Shapeshift - JavaScript library to drag n' drop DOM elements - added two new features and updated two existing features to solve personal pain points.
- move.js - JavaScript library for CSS animations - Added a new feature requested in the issue tracker of the library.

Other projects

- AutoComPaste - Final Year Thesis Project – written in C++. An image processing and OCR based project focused on improving speed of processing using parallel programming.
- Indoor Navigation for Visually Impaired - written in Python (Software component) - A software powered hardware device that uses the map of a building to guide a visually impaired person inside the building. Awarded the best project in the cohort.
- Unix Shell - A software testing course project aimed at learning and implementing unit, integration and system testing; written in Java - Created a cmd-line program that replicates a subset of commands of the Unix terminal.
- EZTask – A software engineering course project aimed at learning and implementing core software development principles in a team; written in Java. A Task Manager application that helps users maintain To-Do lists.
- Hypermarket System – An Object-Oriented CRUD application that maintains stocks of a super market; written in C++.
- IPL Ticket Reservation System - Successfully completed a self-initiated project topic for A-levels dissertation; written in Java, MySQL. An application that enables users to view matches and book tickets across different grounds.

Co-Curricular Activities

Cricket

- Player, Challengers United Cricket Club   2015-Present
  - Best Young Player Award, 2015
- Player, Redbacks Cricket Club   2016-Present
  - Best Batsman, 2016-17
- Captain, NUS Cricket, Tarang Inter-university games   2015

Dance

- President, Indian Dance club, NUS   2013-2014
- Production Director, Indian Dance club, NUS   2012-2013
- Performed in 4 shows in 4 different styles - Argentine Tango, Bollywood, Jazz and Tamil.