Alonso Gonzalez

SOFTWARE ENGINEER

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Education

California State University Northridge   *Northridge, CA*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *May 2018*

- **Coursework**: Database Design (MS SQL Server), Data Mining, Web Development, Expert Systems, Advanced Data Structures (Java, C++)

Experience

DoubleDoor Technologies Inc   *Los Angeles, CA*
LEAD SOFTWARE ENGINEER   *APR. 2019 - PRESENT*

- Building prototype environments to migrate hosting of Node.js RESTFUL API web server from Heroku to AWS EC2 to reduce latency and increase capacity as the website scales with users.
- Led and mentored a team of 4 Engineers holding regular meetings and collaborated with project manager to create biweekly digestible sprints.
- Collaborated with team to architect business logic and identify missed concerns.
- Integrated MLS feed, manipulating XML data streams to extract listing data into JSON. Using AWS Lambda functions and Cloud-Watch Events to create cron jobs that keep listing data updated and stored in MongoDB and S3 buckets.

DoubleDoor Technologies Inc   *Los Angeles, CA*
FULL STACK SOFTWARE ENGINEER   *JUL. 2018 - PRESENT*

- Worked with all departments to designed and developed new features and build responsive reusable forms with custom, validated input fields using Vue.js
- Designed and implemented a messaging system between client server and api server using socket.io.
- Designed and implemented authentication flows using session cookies and passport.js with custom strategies to authenticate hashed passwords with bcrypt.
- Created a search algorithm with mongo aggregations and geo-spatial indexing to search property listings based on location and search filters.
- Used both Mocha.js and Chai.js frameworks to implement unit testing, integration testing, and functional testing. Setup and utilized CircleCI for continuous deployment and integration.

Skills

	SDLC Agile OOP SPA PWA
Languages	JavaScript Java Python HTML SCSS C# C++ C
Frameworks	Node.js Express React Vue Typescript Socket.io
Databases	MongoDB PostgreSQL Redis Microsoft SQL Server
Tools	GIT Webpack Github Jira Mocha Chai i18n NGINX Confluence
AWS	EC2 Lambda CloudFront S3 CloudWatch Cognito SQS Route53

Projects

Nondeterministic Polynomial Puzzles - Educational Games with Unity & C#

- Utilized C# to control game dynamics and logic for algorithms attempting to solve the NP puzzles.
- Found a better understanding of Time Complexity, Nondeterministic Problems, and Tree Traversals.
- Followed a SCRUM/Agile workflow conducting 2-week sprints, holding bi-weekly meetings throughout the year. Kept product backlog and sprint sheets on click-up.com and version controlled on GitHub using Git.

Data Mining Chicago and Los Angeles Crime Reports

- Analyzed 5GB total of LA/Chicago police reports. Applied the full process of data mining from honing down outliers/noise data to applying Statistical Analysis and Data Mining Algorithms.
- Created Python Scripts to manipulate data stored in an instance AWS server, pandas/sci-kit to create heat maps and bar graphs presented via Jupyter Notebook.