DAVID M. SUAREZ

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Education

Virginia Tech, Blacksburg, VA
B.S. in Mathematics

Personal Projects

Developed a social Slack app with trivia, art, and auto-emoji reactions; AWS API Gateway, Go Lambda, and Terraform.

Developed web servers, media servers, and VPNs using a Raspberry Pi and old computers.

Developed GUI that integrates Caves of Qud game data to create custom maps for the game; Python.

Created CLI tool for quickly testing and managing my Project Euler solutions; Python.

Technical Skills

Scripting & Languages

Tech	Years
Python	4
Ansible	2
Javascript	2
Bash	2
R	2
TypeScript	1
Golang	1
Node	1

Infra/Web Technologies

AWS/S3/EC2	2
HTML/CSS	2
Jira Service Desk	2
Nomad	1

Database and Other

Git	4
PostsgreSQL	3
MySQL	2

Work Experience

Musictoday - Data Scientist   Jan 2020 - Current
- Created a custom metrics and monitoring dashboard using Python and Dash which displays:
  - The complete order life cycle as they enter/leave the warehouse.
  - Real-time track picking, receiving, and packing.
  - Heatmaps of warehouse zones relative to pick frequency.
- Created a CLI reporting tool in Python allowing managers to quickly perform ad-hoc queries against financial and inventory data.
- Automated the infrastructure build and configuration management using Terraform and Ansible.

Education Strategy Consulting - Software Engineer   Oct 2017 - Jan 2020
- Implemented CI/CD and several feature updates to an internal JavaScript API and XML templating workflow.
- Created extensive unit tests for new system features and integrates automated tests into the development pipeline.
- Added documentation to streamline the onboarding and support process for engineers and testers.
- Developed JavaScript, Python, and Bash scripts to automate configuration and common tasks in data analysis environments.
- Led development of proprietary charting libraries in R with an outside contractor. Handles timelines, testing strategies, architecture discussions, and collaborating engineering efforts.
- Created basic data analysis pipelines by pulling data from S3, running internal tools, and posting results in a database.
- Refactored JavaScript codebase to TypeScript improving code readability and maintainability.

Shenandoah Joe Coffee - Roastery Operations Manager   Oct 2016 - Oct 2017
- Used Python and Excel to streamline and automate manual tasks.
- Managed back of house employees and assisted Wholesale Manager preparing coffee for packaging.

Old Navy - Assistant Operations Manager   Apr 2016 - Oct 2016
- Used Excel and VBA to analyze shipment data and store product placement to optimize box to shelf processes.
- Managed a team to process daily shipments of up to 10,000 units.

Pearson - Physics Educator   Jan 2015 - Jul 2015
- Created solutions to 62 physics problems from Newtonian mechanics to quantum mechanics.
- Performed, filmed, and edited live demonstrations.

Virginia Tech - Database Engineer   Jul - Oct 2014
- Updated web services and deprecated forms to PHP5.
- Migrated data from Oracle and MySQL databases to PostgreSQL.

Virginia Tech - Database and Web Developer   Aug 2013 - Feb 2014
- Researched and developed an employee-student database to be used by the dean and staff for tracking and reporting.
- Created and maintained a WAMP server for production.
- Used Codeigniter and Grocery CRUD to develop a PHP front end.
- Prepared demographic data for analysis and data migrations.