Andrew T. Vaccaro

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EDUCATION

Bachelor of Science, Software Engineering, May 2017
The University of Texas at Dallas, Collegium V Honors College
McDermott Scholar class of 2013
GPA: 4.0/4.0

TECHNICAL SKILLS

Languages: Python, Golang, JavaScript, Java
Web: go-kit, GRPC, Vue.js, D3.js, Flask, Django, AWS
Databases: PostgresSQL, Cassandra, RethinkDB, ArangoDB

EXPERIENCE

Data Engineer   May 2019 to present
Empiric Health

- Rewrote a feature extraction data pipeline in Python, creating structured "concept tags" from unstructured surgical operative notes.
- Rewrote nearly all client data automation scripts, reducing code bloat, improving modifiability and code reuse, and substantially reducing manhours.
- Developed a tool to identify and summarize differences between doctor preference cards, allowing for faster opportunity identification and analysis.
- Optimized existing ETL pipeline by utilizing proper pandas dtyping and parallelization.
- Introduced proper git workflows including pull requests and code reviews. Introduced daily standups, sprint planning, and backlog prioritization.
- Hold biweekly office hours to answer questions and mentor junior developers.

Software Engineer (Secret-cleared)   Nov 2017 to May 2019
Booz Allen Hamilton

- Full-stack web and infrastructure development for client and internal projects including the NGA, the NRO, and the BLM.
- Developed Golang microservices for recreation.gov using GRPC and go-kit that handle emails, government user accounts, and reports used in day-to-day operations.
- Developed a single-page web application with Vue.js, D3.js, Golang, and RethinkDB used for strategic planning, schedule management, and data visualization. Became a billable project under the NRO.
- Developed a single-page web application with Vue.js, CesiumJS, and Golang for activity-based intelligence analysis of streaming geospatial data, visualized in a 3D browser-based globe.

Software Engineer   May 2017 to Nov 2017
Hewlett Packard Enterprise - Software Defined & Cloud Group

- Software engineer on OneView, a management tool for HPE Synergy servers that allows a "hybrid cloud" environment to run on customer-owned hardware.
- Developed new features within the Java Spring service-oriented architecture.

PROJECTS

MinecraftU
A startup that teaches critical thinking and programming skills using Minecraft and the ComputerCraft mod. Primary developer and instructor for the Java curriculum. Lead week-long summer camps at the University of Texas at Dallas.

PERSONAL INTERESTS

Speaking - PyData Denver, PyColorado 2019
Board games - currently developing an area-control game for a future Kickstarter