Andrew Rochat

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EDUCATION

Washington University in St. Louis   St. Louis, MO
B.S. Degree. Majors: Computer Science, Finance   May 2020
Cumulative GPA: 3.8/4.0, Honors: Dean's List, Cum Laude

PROFESSIONAL EXPERIENCE

Palantir Technologies   New York City
Forward Deployed (Team Lead)   February 2022 - Present
- Technical lead for Palantir's partnership with robotics manufacturer, Sarcos. Team size ranged 3-6
- Developed the following: a dashboard for robot sensor data, a deployment app for firmware updates, a portal for customer service tickets, and a configuration manager for making and pushing config changes to robots
- Built out read-write capabilities with Artifactory, Azure Blob Storage, Oracle Netsuite via REST API and JDBC
- Created pipeline for processing terabytes of robot sensor data into Epoch DB for frontend consumption
- Using Typescript, built multiple frontend applications for technicians, engineers, and customers to interface with the robots and robot data. Incorporated email notifications and customer authentication via Azure B2C

Forward Deployed (Deployment Strategist)   April 2021 – February 2022
- Deployed as a software engineer to California utility company, PG&E, where I worked on a wildfire mitigation team that used risk models of electric poles to create a detailed inspection plan for their linemen
- Built and maintained the end-to-end integration of multiple source systems including SAP, Esri ArcGIS (GIS), SharePoint Online via Azure AD, and a handful of REST API's. Built out connections using Java with JDBC
- Developed production data pipelines that transformed millions of rows using distributed computing with Apache Spark. Used geospatial libraries for GIS processing such Apache Sedona, GeoPy, Arcpy, Geopandas
- Constructed frontend application using TypeScript on top of Foundry API layer that calculated pole inspection deadlines and informed field managers of which poles were due for inspection, segregated by wildfire risk

Axegine Capital Management LLC   New York City
Software Engineering Summer Intern   June 2018 – August 2018
- Adapted to and refactored large legacy code base in python. Also built multithreaded system for asynchronously running back testing trading strategies
- Created a login security page using an LDAP protocol for automatically authenticating users based on Axegine's active directory. Also responsible for creating varying access levels for different security groups
- Used Python and Plotly Dash framework to build front end data visualization tools that showcased graphical representations of the market, leading to a streamlined process for traders to access their analytics

LEADERSHIP EXPERIENCE

Computer Science Department at Washington University in St. Louis   St. Louis
Head Teaching Assistant   January 2019 – December 2020
- Employed as a teaching assistant for CSE330 Rapid Prototype Development where I taught students how to create various websites with AWS, Apache, PHP HTML/CSS, and JavaScript with SQL databases
- Also covered more advanced topics such as .NET and JavaScript frameworks like React, XML, Node.JS
- Hosted office hours and graded assignments in collaboration with professors and fellow TA's

INDEPENDENT & RESEARCH PROJECTS

Stock Tracking Application   2020-2021
- I used Python with a Dash Framework to create a stock dashboard that provides market analytics
- To launch app, I used the Python web server Gunicorn, and I used Heroku's free dyno to host it
- The app works by using a stock API called yfinance, which I use to pull stock information and pricing
- I use an AP scheduler & a Heroku worker to pull market data and a PostgreSQL DB to store the data

SKILLS + CERTIFICATIONS
- Computer Science Skills (order of proficiency): Python (Pyspark, Apache Sedona, GeoPy, Arcpy, Geopandas, Flask, Sqlalchemy, Plotly, Dash), SQL (PostgreSQL, MySQL), Javascript (TS, React, Node, .NET), HTML, CSS, Java, C++
- Software: Palantir Foundry, IntelliJ, Microsoft Excel, PowerPoint, Tableau, Matlab, Unity, Xcode, GitHub, Heroku, JFrog Artifactory, Azure, AWS