Andrew Lee

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EXPERIENCE

Lockheed Martin, King Of Prussia, PA

Software Engineer — February 2024 - Present

- Revamped and extended a React/Typescript UI for data transfer software, reducing operator training by 30% and support tickets by 50% through rapid bug fixes during critical demos.
- Designed and implemented Java services to enhance system operations, including simplifying network configuration, automating heartbeat log management, analyzing failed transmissions, and dynamically controlling database user access.
- Collaborated with hardware and systems engineers to redesign the backend/frontend system architecture, improving performance and enhancing security measures to meet strict industry guidelines.
- Experience provisioning server racks and air-gapped systems with custom Ansible scripts to deploy the web application, reducing manual efforts and minimizing the risk of configuration errors.

Associate Software Engineer — February 2022 - February 2024

- Created simulators for interconnected satellite systems in Java. Enabled dynamic addressing and accurate heartbeats, resulting in faster development of dependent applications throughout various sprints.
- Designed data transformation applications in Python, handling AMQ messages and broker integration, facilitating efficient ETL processes and data model creation using Protobuf/Pydantic.
- Served as Scrum Master, leading Agile processes in data-intensive projects, coordinating team collaboration, removing impediments, and ensuring timely delivery of high-quality software within sprints.

Associate Data Engineer — June 2021 - February 2022

- Visualized geospatial communication metadata using ElasticSearch and Kibana. Presented these dashboards to potential customers.
- Wrote well-tested and documented code in an agile environment, utilizing Helm, Docker, Rancher, ArgoCD to deploy containerized, scalable applications via Gitlab CI/CD pipelines.

Protochips, Morrisville, NC — June 2016 - August 2018

Technician

- Programmed and assembled precision Arduino-based controllers for electron microscope holders.
- Collaborated with a small team of engineers over three summers, taking on increasing responsibilities.
- Assisted with presenting products to potential clients.

SKILLS

Languages: Python, SQL, Java, Typescript

React, Ansible, Springboot, Node.js, AWS, PySpark, Git, PostgreSQL, Pandas, FastAPI, Gradle, ActiveMQ

EDUCATION

University of Richmond, Richmond, VA — May 2021

Bachelor of Science, **Mathematical Economics**

Minor, *Computer Science*

Relevant Coursework: Machine Learning, Advanced Econometrics, Business Statistics, Probability, Linear Algebra, Financial Accounting, Financial Management, Software Systems Development

LEADERSHIP

Data Science Club, University of Richmond

President, Founder

- Set and moderated goals for the club, oversaw the creation, and recruited new members.
- Coordinated biweekly meetings, datathon competitions, and data scientist speakers.

Economics Society, University of Richmond

Senior Member

- Participated in monthly meetings to discuss recent economic changes and modern theories.
- Got to know my professors and classmates better.

PERSONAL PROJECTS

Vidmatic.io Platform — January 2024

Full Stack Developer/Founder

- Developed software delivering highly accurate and video captions/editing tools simplifying engaging and stylized captions with timestamps and confidence intervals.
- Technologies: Frontend: Typescript, React, Redux; Backend: Python, FastAPI, Pydantic;

Personalize AI Model using iMessage Data

- Built a Python-based pipeline using Pandas for extracting and preprocessing iMessage conversation data.