Jacob Nocentino

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Experience

Amazon Web Services Aug. 2022 – Present

Software Development Engineer *Seattle, WA*

- Built a fully-managed AI/ML AWS Service for detecting online fraud in the cloud using Java, Python, and TypeScript.
- Led the end-to-end process of designing, implementing, and releasing three new public AWS APIs for data preparation, resulting in a 10% increase in customer adoption.
- Designed and implemented core infrastructure and functionality within an AWS GenAI-based automotive data processing and query service, ensuring a seamless experience for customers.
- Developed Amazon Q Business integration with SaaS apps such as Slack and Microsoft Teams by handling IdC authentication flows, developing five new public AWS APIs, and designing a complex multi-tenant infrastructure.
- Provided 24/7 on-call support for critical customer-facing services, adeptly resolving multiple outages with rapid root-cause analysis, and utilized metrics and service logs to minimize downtime and reduce customer impact.

The Vanguard Group May 2020 – July 2022

Technology Leadership Program - Software Development Engineer *Malvern, PA*

- Built a scalable backend architecture using ECS, S3, Lambda, Aurora, and Java to ingest critical market data into Vanguard servers, resulting in a $900,000 reduction in data costs.
- Spearheaded a machine learning feature store using PySpark that led to a 56% increase in client consults scheduled with a Vanguard advisor.
- Automated Avro serialization process by writing robust and secure data ingestion pipelines in Python, resulting in 300 hours in development time saved.
- Led three interns during the course of their summer internship.

Software Development Engineer Intern

- Created a responsive web application using TypeScript and Angular to rebalance client portfolios.
- Collaborated with business and design teams to ensure application accessibility and usability was met with high standards for Vanguard clients.

Lehigh University May 2019 – Aug. 2019

Machine Learning Researcher *Lehigh, PA*

- Designed a convolutional neural network with Python, PyTorch, Pandas, and NumPy to aid in research about extracting context from Amazon product reviews.
- Engineered many other baseline machine learning models with scikit-learn to compare against the neural network.

Education

Bloomsburg University Aug. 2017 – May 2021

B.S. in Computer Science, B.S. in Mathematics *Bloomsburg, PA*

- 3.90 GPA, Magna Cum Laude, Presidential Scholarship, Henry Carver Honors Scholarship, Honors College, President of Student Chapter ACM, Computer Science Learning Community Mentor

Projects

Sun Viewer | *Java, JSP, SQL, Spotify API, YouTube API*

- Designed a JSP application that utilized the YouTube API to pull over 50 live streams of sunrises/sunsets.
- Integrated with the Spotify API to create a music web player to play music of the user's choice in the background.
- Developed functionality for creating accounts, logging in, list all cameras, getting a specific camera's detailed view, and submitting one's own livestream to be added to the SQL database.

My Classroom Economy | *AWS, Cognito, Route53, TypeScript, React*

- Worked in a 5-person team to develop an application to make investing accessible to a younger audience.
- Created a web application in React that uses AWS Cognito and Route 53.

Technical Skills

Languages: Java, Python, SQL, JavaScript, Typescript, C, C++, Haskell, Scala, Ruby, Shell
Platforms, Tools, & Frameworks: AWS, S3, ECS, EC2, Glue, DynamoDB, Lambda, Step Functions, Route 53, Docker, Node.js, Angular, React, PySpark, PyTorch, NumPy, Pandas, Jupyter Notebooks, Git, Linux, Jira, Jenkins