

ANDREW LEE

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EDUCATION

Boston University, Boston MA
Bachelor of Arts, Statistics and Computer Science

Jan 2024
GPA: 3.48

SKILLS

Languages	Java, Python, TypeScript, Go, Rust, C, OCaml, SQL, HTML & CSS
Frameworks	Angular, React, Express, Spring, Apache Kafka, Node
Tools	Git, Docker, Kubernetes, Jenkins Core, Jira
Cloud Technologies	Azure, AWS, Snowflake
Databases	SQL, NoSQL

WORK EXPERIENCE

Fidelity Investments, Durham NC

Associate Software Engineer

Jan 2024 - Present

- Architected a data migration pipeline using Java, Spring, and SQS, enabling 10+ teams to migrate data from Snowflake to AWS RDS, streamlining workflows and improving data access efficiency.
- Implemented high-performance RESTful APIs in Java (Spring Boot), optimizing throughput with async methods, efficient connection management, and tuned SQL queries.
- Designed and developed behavior-tracking infrastructure for a high-impact rollover site, using Adobe Analytics to boost conversions by 50% through product and marketing optimizations.
- Led development of an Angular dashboard tracking shared library usage across 500+ apps, halving build times and helping leadership address tech debt and ownership gaps.
- Championed initiatives on the Advisory Council to drive skill-sharing programs, enhancing cross-team collaboration and fostering organizational knowledge growth.

Boston University Spark! (Tech Incubator), Boston MA

May 2022 - Feb 2024

Program Manager

- Built an AI-driven document ingestion pipeline in Python, using OCR and LLMs to extract, summarize, and normalize unstructured data before storing it in AWS RDS.
- Built regression models (linear, ridge, lasso) and tuned K-means clustering, uncovering predictive patterns and demographic trends linking education to incarceration rates.
- Co-taught XC410: Data Science for Good, focusing on positive public sector technological impact.

Fidelity Investments, Dallas TX

June 2023 - Aug 2023

Software Engineer Intern

- Architected a resilient Jenkins Core CI/CD platform supporting 100+ pipelines, cutting build failures by 40% and unifying deployment workflows across teams.
- Orchestrated containerized applications on AWS EKS, leveraging S3 for persistent storage, resulting in a 25% improvement in application uptime.
- Cut VM setup time by 90% using a Bash script to automate application installs during builds.

Digital Asset Management Group, Chicago IL

June - Aug 2021

Software Engineering Intern

- Improved throughput by 50% on event-streaming architecture using Apache Kafka and Binance WebSocket APIs, achieving streaming speeds of 200-500ms for crypto futures data.
- Created a tool to visualize the weighted network of 1000+ cryptocurrency exchange pairs (by volume) to target lucrative arbitrage opportunities.

Center of Mind and Culture, Boston MA

Feb - Aug 2021

Computational Research Fellow

- Enhanced accuracy of a system dynamics model simulating suicidal depression using AnyLogic.
- Optimized Gephi workflows to enable live network analysis of interdisciplinary research spanning 1960 to present.