

AVERY LIEU

Chicago, IL

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Summary

Ambitious, goal-oriented, and articulate data engineer with diversified experience in both small and Fortune 500 companies. Adept at identifying business needs, formulating plans and designs, and delivering value. Experienced with all phases of software life cycle. Fast learner and very adaptive with new technologies, systems, and teams.

Work Experience

Capital One, Chicago, IL

September 2017 - Present

Associate Data Engineer

- Lead agile software release life cycles from requirements analysis to production. Coordinate efforts across teams via meetings, presentations, and demos to stakeholders.
- Design, develop, and maintain microservices for collecting and reporting both real-time and batch data on delinquent credit card accounts. Services involve real-time data streaming, ETL, REST APIs, and decisioning logic.
- Modernize legacy APIs and UIs. APIs converted to hosting in AWS and aligning to new business information requirements. UIs converted to SPAs for faster performance and microservice-based orientation.

Private STEM Coaching, Fairfax, VA

January 2017 - Present

Business Owner

- Founded a state-licensed online business venture. Created an ecommerce website to market coaches, initiate communications, and handle transactions.
- Manage coaches and vet potential coaches. Ensure coaches meet professional standards. Address questions and concerns regarding coaches and by coaches.

Fidelity Investments, Raleigh, NC

Summer 2016

Software Engineering Intern

- Developed UI for network data reporting. Features included exceptions reporting, data aggregation, and chart representation.
- Introduced system to prevent email phishing. System filters malicious emails by matching IP addresses with Splunk and Project Honeypot databases.

Projects

Delinquent Credit Card Management Microservice

- High throughput and resilient microservice that processes the data of over 7 million credit card accounts daily in both real-time and batch using Kafka queues and Lambda triggers.
- Decisioning logic to determine credit card account status' and communication methods.
- APIs and databases built to transform data for business meaning and for usage by other microservices in the system.

Phone Invalidation Service

- Handles thousands of request from end-users for agents to stop calling specified phone numbers.
- Updates are made across multiple services and databases to process end-users' requests uniformly.
- All components hosted in AWS cloud and performance monitoring handled through Splunk and PagerDuty.

Skills and Certifications

- Programming Languages: Python, C#, Java, JavaScript, TypeScript, PHP, C++
- Frameworks & CMSs: ASP.Net, ASP.Net MVC, Spring Boot, Django, Angular 4, JUnit, NUnit, Jasmine, Wordpress
- Databases: Postgres, SQL Server, MySQL
- Version Control: Git, TFS
- Automation: Docker, Jenkins
- Operating Systems: Windows Server, Windows 7 - 10, Linux (Debian and Ubuntu), macOS Sierra
- Development: JIRA, Slack, SharePoint, Skype
- Certifications: AWS Solutions Architect - Associate, SAFe® 4 Certified Practitioner

Education

University of Virginia, Charlottesville, VA

May 2017

Bachelor of Science, Computer Engineering