ELLEN STUDER

Software Engineer

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SUMMARY

As a career-changer, through my tenacity and ability to learn quickly I have accomplished a great deal --in both output and professional growth-- in my first Software Engineer role. With little prior experience I built several robust, scalable APIs end-to-end, employing best practices in OOP and design patterns, and contributing to significant process improvements and cost reduction for the company. I am highly capable working and self-teaching independently, but also thrive in close, collaborative environments. I look forward to learning from passionate engineers in my next role!

SKILLS

Amazon Web Services • AWS Lambda (Serverless Computing) • AWS SQS (Message Broadcaster) • AWS Dynamo (NoSQL Database) • CircleCI (CI/CD) • Git (Version Control) • Docker (Containerization) • Terraform (IaC) • PlantUML • Python3 • React • Node.js • Javascript • HTML5 • CSS • SQL • Relational Databases • Microservices • OOP • SOLID

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER
Chicago, IL

AM Money (Fintech startup that provides low-interest loans to college students)   *August 2022 - Present*

- Independently designed, built, tested, and deployed containerized credit engine API for automated, event-driven credit pulls from Transunion API; Built in Python, leveraging AWS services including Lambda, ECR, and API Gateway, deployed on an AWS VPC subnet to ensure secure, isolated environment
- Built REST API to automate loan certification process; Generates, uploads reports via integrations between Salesforce, AWS Lambda, AWS S3, SFTP. Built in Python, containerized with Docker, deployed via CircleCI
- Implemented event bus to dispatch asynchronous communication between microservices
- Initiated use of CircleCI to automate building and deployment of containerized code, ensuring consistent code quality, reducing average time-to-market, and increasing deployment frequency
- Led implementation of Terraform Cloud for provisioning and managing AWS resources through version control, increasing code reusability and simplifying the management of complex infrastructure as code
- Quickly cultivated comprehensive knowledge of internal codebase; produced detailed documentation, wrote unit tests, and served as point person for debugging APIs

SENIOR RESEARCH ANALYST
Chicago, IL

University of Chicago Inclusive Economy Lab (Public policy research organization)   *April 2019 - July 2022*

- Authored detailed technical reports communicating research findings to diverse audiences
- Affected significant process improvements for analyst team, including establishing use of a version control system and building R packages to simplify repetitive data cleaning tasks and reduce data processing time
- Managed junior staff, providing mentorship on research methods and writing high quality code

RESEARCH ANALYST
New York, NY

CUNY Office of Research, Evaluation & Program Support (In-house data analytics team) *September 2017 - April 2019*

- Led design and rollout of improved database and data collection app for client; trained client staff, troubleshot
- Managed internal database; streamlined data collection and cleaning, wrote detailed process documentation

EDUCATION

FULL STACK WEB DEVELOPMENT CERTIFICATION
February 2021 - December 2021

CareerFoundry

MASTER OF PUBLIC ADMINISTRATION, POLICY
September 2015 - June 2017

New York University

BACHELOR OF ARTS, POLITICAL SCIENCE & HUMAN RIGHTS
September 2010 - June 2014

University of Minnesota