

ELLEN STUDER

Software Engineer

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SUMMARY

I am a self-starter skilled at quickly scaling steep learning curves. With startup experience, I have independently scoped, architected, and implemented numerous high-quality backend solutions, owning each phase of the SDLC from concept to deployment. In my next role I'm eager to collaborate with talented engineers to build exciting new products!

SKILLS

Amazon Web Services • Lambda (Serverless) • IAM (Identity and Access Management) • SQS (Message Broadcaster) • API Gateway • CI/CD • Docker • Terraform (IaC) • PlantUML • REST • GraphQL • Git (Version Control) • Distributed Systems • Microservices • Service Oriented Architecture • Python3 • React • Javascript • HTML5 • CSS • SQL • NoSQL

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER

Chicago, IL

AM Money (Fintech startup that provides low-interest loans to college students)

August 2022 - Present

- Led development of automated credit pull API to replace manual credit pulls; Designed and built using AWS services to ensure secure, event-driven, idempotent pulls leading to 10% reduction in total underwriting time
- Modernized loan reporting process to meet industry standards, unlocking \$300m state funding eligibility; Built reporting API, implementing complex third-party business logic and integrating AWS and CRM for automation
- Strengthened DevOps practices, initiating use of Docker and CircleCI to automate testing, building, and deployment of containerized code; Reduced average build time by 40%, achieved more robust, reliable code
- Introduced infrastructure as code practices using Terraform Cloud; Provisioned, Managed AWS infrastructure, reducing human error by 30% and decreased overall development time
- Quickly cultivated comprehensive knowledge of internal codebase; authored detailed documentation, wrote unit tests, and served as point person for debugging APIs

FULL-STACK DEVELOPER

Chicago, IL

Freelance

November 2021 - August 2022

- Created custom online sales platform for small business client, expanding customer base by 50%; Developed React web app leveraging Commerce.js for dynamic product display and Stripe for secure payment processing

SENIOR RESEARCH ANALYST

Chicago, IL

University of Chicago Inclusive Economy Lab (Public policy research organization)

April 2019 - July 2022

- Managed junior staff, conducting code reviews and providing mentorship on code quality standards
- Constructed ML models using k-prototypes clustering and elbow optimization to analyze community college student enrollment patterns; results informed design of impactful degree-completion support services

RESEARCH ANALYST I, II

New York, NY

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

- Led design and adoption of data collection web app to replace manual data entry; reduced data ingestion and processing time by 50%, decreased turnaround time for interim KPI reports by 60%

EDUCATION

CAREERFOUNDRY

Certification, Full Stack Web Development

February 2021 - December 2021

NEW YORK UNIVERSITY

MPA, Public Policy and Administration

September 2015 - June 2017

UNIVERSITY OF MINNESOTA

BA, Political Science & Human Rights

September 2010 - June 2014