Ethan DeGuire

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Summary: Full Stack Software Engineer with a proven track record of delivering impactful solutions at leading financial institutions and mom-and-pop shops. Specialized in building scalable web applications and cloud-native solutions. Proven ability to drive technical innovation across the stack, working closely with clients to deliver solutions that exceed expectations.

Education:

Bachelor of Science in Computer Science - University of Michigan: Spring 2024
Certified Solutions Architect - Associate - AWS: 2025

Technical Skills:

General: Python, REST/GraphQL API Design & Integration, Data Engineering, Cloud Architecture
AWS: Lambda, ECS, Step Functions, S3, SNS, SQS, DynamoDB, Batch
Database Systems: DynamoDB, Snowflake, PostgreSQL, Databricks
Web Technologies: HTML/CSS, Alpine.JS, TailwindCSS, RESTful APIs
E-commerce: Shopify API, Printful API
Soft Skills: Team Collaboration, Problem-solving, Technical Documentation

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Work Experience:

Software Engineer - Capital One (2024 - Present):
- Engineered AWS Batch-based data protection tools to remediate sensitive data across enterprise databases through encryption, masking, and deletion
- Developed real-time data streaming pipelines using AWS Lambda and SQS to ensure consistency and availability of critical banking datasets
- Built and maintained data products providing reliable, consistent access to enterprise-wide banking data
- Collaborated with teams across the organization to implement data security best practices and compliance requirements

Technical Partner & Lead Engineer - WeLakeYou (2024 - Present):
- Architected and implemented an end-to-end automation system managing 10,000+ Shopify products across hundreds of lake-specific product lines
- Developed critical and robust API integrations with Printful and Shopify
- Created custom image generation pipelines, enabling automated mockup generation and product creation

Internships - Capital One, Rocket Mortgage, University of Michigan, Savance (2019-2023):
- Capital One (Summer 2023, McLean VA) - Built Angular dashboards for mobile app development tracking and implemented platform improvements
- Rocket Mortgage (Summer 2022 & 2021, Detroit MI) - Developed data auditing tool improving efficiency by 300% and built Chrome extension used by 100+ interns
- University of Michigan Research (2022, Ann Arbor MI) - Created ML models for music genre classification achieving 95%+ accuracy using Julia and Python
- Savance (Summer 2019, Commerce Twp MI) - Engineered business partner API integration securing $5,000+ contract and improved employee tracking systems

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Projects & More:

Freelance - Video Editing Tool for a Record Label: Created a serverless web-based video editing tool eliminating 90% of the effort required to create custom content for social media.
High School Hack Club Chapter: Founded first CS club, taught 45 middle + high school students to code. Organized hackathon with 100+ signups and corporate sponsorships.