Ethan DeGuire

(248) 660-6101   ethandeguire@gmail.com   LinkedIn   https://ethandeguire.info

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Summary: Full Stack Software Engineer with expertise in delivering impactful solutions at leading financial institutions and family-owned businesses. Specialized in building scalable web applications and cloud-native solutions using modern technologies. Demonstrated success in driving technical innovation and exceeding client 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 Admin API, Printful API
Soft Skills: Collaboration, Problem-solving, Technical Documentation

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Work Experience:

Software Engineer - Capital One (2024 - Present):
- Engineered AWS Batch-based data protection tools making sensitive data remediation trivial across enterprise databases through automated encryption, masking, and deletion
- Developed real-time processing pipelines using AWS Lambda, handling 1M+ events daily to ensure consistency and availability of critical banking datasets
- Led sql-parsing and data lineage extraction for an internal Snowflake analytics tool

Technical Partner & Lead Engineer - WeLakeYou (2024 - Present):
- Architected and implemented an end-to-end automation system integrating custom image templating with Shopify and Printful APIs
- Programatically creating and managing 10,000+ Shopify products across hundreds of lake-specific product lines.
- Created custom image generation pipelines in using PIL for Python, enabling automated mockup generation and reducing product creation time from days to minutes

Internships - Capital One, Rocket Mortgage, University of Michigan, Savance (2019-2023):
- Capital One (Summer 2023, McLean VA) - Built Angular dashboards for mobile app devops tracking and platform improvements
- Rocket Mortgage (Summer 2022 & 2021, Detroit MI) - Developed data auditing tool using Angular and .NET, improving lookup efficiency by 300%
- University of Michigan Research (2022, Ann Arbor MI) - Trained convolutional neural networks for music genre classification using Julia, achieving 95%+ accuracy on a dataset of 50,000+ songs
- Savance (Summer 2019, Commerce Twp MI) - Engineered business partner API integration securing $5,000+ contract

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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 using p5.js. Organized hackathon with 100+ signups and secured $4,000 in corporate sponsorships.