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EDUCATION

The Ohio State University, College of Engineering and College of Sciences

May 2026

B.S. Computer Science Engineering and B.S. Theoretical Mathematics (Dual Degree)

GPA: 3.57

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, HTML/CSS, C, C++, SQL, x86 Assembly, MATLAB, Ruby, Ruby on Rails
Tools: Git, Jira, Figma, Docker, Postman, Linux (Fedora), Web Development Tools, Redis, Vite, Nginx, AWS, CI/CD
Frameworks: React.js, Vue.js, Node.js, Django, SQLAlchemy, Streamlit, FastAPI, Celery
Modern AI: Prompt Engineering, LangChain, RAG, Vector DB, Embeddings, LLMs, Context Management

WORK EXPERIENCE

BMW Group

Columbus, OH

AI Engineer Intern

April 2025 – Present

- Reduced manual customer feedback analysis time by **95%** as measured by processing efficiency metrics, by architecting an application using Python, Streamlit, and AWS to process **100%** of customer feedback across multiple sources.
- Generated 405+ hours in agent time savings annually and achieved a **95%** classification accuracy, by doing end-to-end full-stack implementation including data querying, transformation, LLM payload construction, and results table creation.
- Architected a scalable fraud prediction pipeline on AWS SageMaker, utilizing PySpark to preprocess **10+** million transactions for neural network training, reducing training time by **~20%** while significantly lowering false positive rates.

Muncie Power Products

Remote

IT Intern

January 2025 – Present

- Increased IFS system adoption by **35%** and process efficiency by **25%** by architecting a library of **200+** multimodal training modules, utilizing video tutorials and interactive workflows to accelerate user proficiency.
- Improved technical issue resolution efficiency by eliminating **30+** hours of escalation time by leading discovery interviews with **5+** functional teams to identify bottlenecks, document requirements, and coordinate solutions during IFS rollout.

Department of Engineering, The Ohio State University

Columbus, OH

Teacher's Assistant

August 2024 – Present

- Mentored **150+** students in the 'Software II' curriculum, facilitating the understanding of advanced Java data structures, recursion, and algorithmic efficiency through code reviews. <https://cse22x1.engineering.osu.edu/2231/web-sw2/index.html>

CONSULTING AND FREELANCE

QuickGrader

Columbus, OH

Founder

Present

- Leading development of a full-stack autograder platform (FastAPI, Vue.js) deployed on AWS with CDK-managed infrastructure including RDS PostgreSQL, ElastiCache Redis, ECS Fargate, and S3, reducing grading time by **50%**.
- Engineered infinitely scalable event-driven grading pipeline using serverless ECS Fargate tasks and EventBridge orchestration, reducing infrastructure costs by **60%** while processing submissions with RAG-enhanced LLM evaluation.
- Leading multi-team technical mentorship on full-stack architecture and cloud design while conducting institutional AI ethics research with **1,000+** student participants to inform responsible deployment practices. <https://quickgrader.io/>

DMS-SITE

Columbus, OH

Software Engineer

October 2025 - Present

- Architecting a comprehensive modernization plan for a multi-property e-commerce platform supporting **\$4M** in annual revenue, by designing scalable full-stack architecture for DMS Safety Gates and subsidiary business units with mobile-responsive design, SEO optimization aligned with Google's ranking algorithms, and performance targets.
- Developing technical specifications for AI-powered customer service chatbot and CAD integration system as measured by a streamlined user experience, by designing RAG-based architecture for automated product inquiries, <https://dms-site.com/>

Dorian Gray Enterprises

Columbus, OH

Software Engineer

October 2024 – October 2025

- Architected and deployed a comprehensive, full-cycle tenant lead management platform, integrating the Zillow API and custom email parsing to automate lead ingestion, prescreening, and tour scheduling.
- Built core back-end systems using Ruby on Rails including a workflow that utilized Stripe for automated identity verification and integrated with property management software to ensure real-time financial logging.
- Engineered and launched a proprietary in-house transaction categorization service that automatically processed financial data from bank and credit card sources, identifying vendors and expense categories. <https://www.doriangrayenterprises.com/>

PropertySwan LLC

Columbus, OH

Software Engineer

May 2024 – January 2025

- Developed full-stack property management platform using Vue.js, Node.js, and PostgreSQL with secure two-factor authentication with Redis session management and bcrypt encryption, and integrated Stripe API subscription payments.