

Erik Graybill

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Skills

Languages: Visual Basic, HTML/CSS, Python, Java, SQL, JavaScript, C#, TypeScript

Tools: Android Studio, Figma, Git/GitHub, Azure, Microsoft SQL Server, Visual Studio, VS Code, Vercel

Methods: Object-Oriented Programming, Design Thinking, UML, Agile, Relational Database Design

Frameworks & Libraries: ASP.NET, Node.js, React, Next.js

Professional Experience

Programmer/Analyst I – High Steel Structures

May 2023 – Present

- Engineered an internal library of 20+ reusable classes to standardize data operations across multiple applications, enhancing code consistency and scalability.
- Modernized 10+ legacy programs for compatibility with newer hardware, improving performance and longevity.
- Designed, implemented and maintained databases using Microsoft SQL Server to support modular application development and improve data consistency across multiple applications.
- Led R&D efforts into AI, exploring use cases, and prototyping intelligent applications using Azure.

UX Designer/Developer Intern – Silverline Solutions

May – July 2022

- Applied clean code principles and test-driven development to enhance code maintainability and reliability.
- Developed an ASP.NET CRUD web app using C# and PostgreSQL for user entry and data reporting.
- Designed and styled responsive front-end interfaces using CSS, improving UI consistency and accessibility.

Projects

Document Splitting and Naming using OCR – High Steel Structures

Jan 2025 – Present

- Spearheaded R&D of an intelligent document processing system using Azure AI Document Intelligence to extract document names and descriptions from multi-page PDFs.
- Utilized Azure Logic Apps to automate database storage, document splitting and renaming of each document.
- Increased processing throughput by 800+ pages processed per month, reducing task time by 90% and significantly improving operational efficiency.

OneStop Application Development – Penn State University

Jan – May 2022

- Led a team in designing and developing a mobile app to improve public transportation usability in State College.
- Applied the design thinking method to interpret use cases, define user needs, and prototype intuitive workflows.
- Built a working prototype using Java in Android Studio, translating wireframes into functional, user-friendly features to be tested by prospective users.

Full-Stack Laptop Rental Application – Penn State University

Jan – May 2022

- Built a full-stack JavaScript application simulating a laptop rental service
- Designed and implemented a backend server to manage rental transactions and track inventory
- Developed a client-side interface to format and validate user inputs and display server responses

Education

The Pennsylvania State University, University Park

June 2019 – May 2023

B.S. Human-Centered Design and Development

GPA: 3.76

Minor Security and Risk Analysis

Certifications

Microsoft Certified: Azure AI Engineer Associate, Microsoft

May 2025

Honors and Awards

NSA Letter of Recognition, Penn State University, National Security Agency and Department of Homeland Security

Eagle Scout Rank, The Boy Scouts of America