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 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*