

EDUCATION

Washington University in St. Louis , St. Louis, MO	GPA: 3.7/4.0	August 2023 – May 2026
Bachelor of Science in Computer Science, Master of Science in Computer Science		Expected Graduation May 2026
DePauw University , Greencastle, IN	GPA: 4.0/4.0	August 2020 – May 2023
Bachelor of Arts in Pre-Engineering and Mathematics		Degree Conferral Expected May 2025

TECHNICAL SKILLS

Programming Languages & Frameworks: Python, C++, Java, Git, SQL, C#, HTML, CSS, JavaScript, TypeScript, Ruby, Next.js, Node.js, SML, Racket, R, Go; Django, FastAPI, TensorFlow, React, Pandas, Shiny, ASP.NET, LangChain, AutoGPT

Database Management & Cloud Services: PostgreSQL, DynamoDB, MongoDB, Oracle, SQL; AWS (Amazon Web Services); Docker, Kubernetes, SQL Server, CosmosDB, Firestore

Blockchain & AI Technologies: Starknet, Ethereum, AI/Agent Frameworks, Decentralized Systems, Smart Contracts, LLMs, RAG
Development & Tools: Full stack web and mobile app development, Unity, Unreal Engine, Git, GitHub, Bitbucket; strong in object-oriented programming; interest in big data and machine learning.

Relevant Coursework: Data Structures, OOP, System Software (TA), Data Mining (TA), Analysis of Algorithms, AI, Systems Security, Video Game Dev I,II, Programming System & Languages, Mobile App Development, Non-Linear Optimization, Cryptography, Deep Neural Networks, Machine Learning, Linear Algebra, Probability and Statistics, Applied Mathematics, Graph Theory, Mathematics Analysis

WORK EXPERIENCE

Web Developer and Designer for Sustain-a-Plate Web Application June 2024 – August 2024

- Developed a **full-stack web application** using **React** and **FastAPI** to manage customer returns, focusing on **user interface design** and ensuring the application was visually appealing and user-friendly.
- Integrated **PostgreSQL** for database management and ensured **responsive design** across various devices, adhering to modern web standards.
- Implemented real-time **data visualization** tools to improve user experience and streamline logistics management.

Full Stack Developer for [SendBack](#) April 2024 – August 2024

- Built a comprehensive web application using **React** and **FastAPI** to streamline customer returns, integrating **AWS S3** for storage and **DynamoDB** for database management.
- Implemented **RESTful APIs** for data handling and integrated **AWS S3** for storage and **DynamoDB** for scalable database management.
- Deployed the application via **AWS Elastic Beanstalk**, ensuring seamless system performance and scalability.

Mobile App Developer for ShopNFind May 2024 – June 2024

- Developed a **mobile app** using **React Native** to enhance in-store navigation, ensuring a seamless shopping experience across different screen sizes.
- Integrated **real-time inventory updates** and **personalized user profiles**, focusing on accessibility and performance.

LINUXJOBBER, Greenbelt, MD May 2022 – Aug 2022

Security and Quality Analyst

- Developed and deployed a scalable web app using **Django**, improving system reliability and achieving a 30% increase in visual appeal based on customer feedback.
- Conducted comprehensive quality analysis, maintaining educational content and ensuring the accuracy of all associated features and tutorials.

PROJECTS

Agent-based Advertisement Generator Web App Development for Underground Dojo Oct 2023 – March 2024

- Developed a Python backend for automated ad copy generation using the **GPT-4 API**, and integrated a dynamic character animation workflow with Adobe tools.
- Focused on the autonomous generation of content, reflecting key aspects of AI-driven decision-making and system orchestration.

CSE 361s: Cache Memory Lab Fall 2023

- Implemented a **cache simulator** in C to optimize matrix transpose operations, reducing cache misses and improving system performance, which aligns with backend system optimization techniques.

CSE 332S: OOP Design - Lab 5: File System Simulation Fall 2023

- Developed a file system simulation in C++ with implemented commands (ls, remove, cat, etc.) and enhanced the touch command for password protection, demonstrating strong **OOP** design and command pattern usage.
- Applied design patterns (Command, Prototype, Composite/Strategy) to optimize file operations and ensure code extensibility and maintainability.

AI-Driven “WhoFundedIt” Web App Design and Development May 2023 – August 2023

- Designed a web app using **AI** to automate data extraction from academic publications, improving research efficiency with robust **backend systems** and **data management**.

Cybersickness in Virtual Reality May 2022 – August 2022

- Conducted research to mitigate cybersickness in VR, using Unreal Engine and Arduino for data capture, and developed a 3D-printed chin rest to stabilize participants, demonstrating hands-on experience with complex systems.