

Education: University of Delaware

University of Delaware - Bachelor of Computer Science

Expected Graduation: May 2026

Related Coursework: Data Structures, Machine Organization and Assembly Language, Object Oriented Programming, Introduction to Algorithms

Work Experience

Headstarter AI | Software Engineer Fellowship

Jul 2024 - Present

- **Back-End Web Development:** Engineered and deployed over 5 AI applications and APIs, leveraging **Next.js** for server-side rendering, **OpenAI** for advanced natural language processing, and **Pinecone** for scalable vector database management. Integrated **Stripe API** for seamless payment processing, impacting over **1,000 users** with enhanced, data-driven functionalities.
- **Software Development and Object-Oriented Programming:** Directed full-cycle project development using **MVC** (Model-View-Controller) architecture for creating maintainable and efficient codebases. Implemented **OOP** principles to ensure robustness and scalability in software solutions.
- **Project Management and Leadership:** Led a team of 4+ engineering fellows in the collaborative design and development of software solutions, transitioning projects from design phase to deployment, and applying best practices in software engineering.
- **Mentorship and Best Practices:** Received advanced coaching on **Agile** methodologies, Continuous Integration/Continuous Deployment (**CI/CD**) pipelines, **Git** version control, and microservices architecture. Enhanced team capabilities by incorporating industry-leading practices and tools in the development process.

JP Morgan Chase & Co | Software Engineering Virtual Experience | Python, React

- **Financial Data Visualization:** Developed data visualization tools to analyze and display financial trends, leveraging **Python** for data processing and **React** for building interactive front-end interfaces.
- **Real-Time Data Processing:** Implemented algorithms for **real-time data processing**, gaining experience with **financial datasets** and working in fast-paced, high-stakes environments.
- **Collaborative Development:** Simulated a professional **software engineering** role by working on tasks reflecting industry practices, including **code reviews** and **team-based problem-solving**.

Projects

Hackathon | Community Service Finder Website | HTML, CSS, JavaScript, Web3Forms API | [Project Link](#)

- **Volunteer Opportunity Platform:** Developed a website to connect users with local volunteer opportunities in Delaware, using **HTML** for structure, **CSS** for styling, and **JavaScript** for dynamic functionality.
- **Responsive User Interface with Interactive Elements:** Designed a front-end using **CSS Flexbox** layouts and tabbed navigation. Implemented interactive elements like hover effects, image zoom, and smooth transitions.
- **Integrated Web3Forms API for Data Submission:** Utilized the **Web3Forms API** to handle form submissions from organizations, enabling secure submission of new volunteer opportunities.
- **Dynamic Data Handling with JavaScript:** Integrated a structured data model to manage volunteer opportunities, dynamically displaying event details based on user interactions.

Personal Portfolio | AWS, HTML, CSS, JavaScript | [Project Link](#)

- **Cloud Computing/Cloud Infrastructure & Hosting:** Deployed the website using an **AWS EC2 instance** for reliable, scalable hosting, and integrated an **AWS S3 Bucket** to efficiently store and serve static assets, ensuring high availability and rapid content delivery.
- **Advanced Layouts and Responsive Styling:** Designed a visually appealing portfolio site featuring advanced **CSS** grid layouts and responsive media queries for optimal viewing across devices.
- **Integrated Email Functionality:** Utilized **EmailJS API** for robust email integration, allowing users to submit contact forms and messages with real-time feedback.
- **Performance Optimization:** Applied best practices in **JavaScript** and **CSS** to optimize performance and loading times, leveraging efficient code structuring and asynchronous processing.

Skills

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript
- **Technologies:** Git, Visual Studio Code, IntelliJ, CLion, React, Firebase, Next.js, Redux, AWS Services
- **Core Skills:** Back-End Web Development, Object-Oriented Programming, Data Structures and Algorithms, API Implementation