

Full-stack Application Developer with 3+ years of experience building large-scale, compliance-driven .NET applications for government agencies. Specialized in **.NET Core, SQL optimization, Azure AI, and RAG-based systems**, with a strong academic background in computer science and applied mathematics.

EDUCATION

Master of Science in Engineering in Computer Graphics (May 2023, University of Pennsylvania, GPA: 3.6)

Bachelor of Science in Computer Science (May 2021, Pennsylvania State University, GPA: 3.9, honor)

Bachelor of Science in Applied Mathematics (May 2021, Pennsylvania State University, GPA: 3.9)

EXPERIENCE

Application Developer II (OCIT)

July 2023 - Present

- Developed and deployed county-wide, large-scale applications using **.NET, React, C#, and JavaScript**, delivering critical features ahead of schedule and supporting hundreds of thousands of users and high-volume data entry workflows.
- Designed and deployed **AI-powered systems**, including OCR-to-text pipelines, document summarization services, and RAG-based policy search engines, enabling faster policy retrieval and improved decision-making.
- Served as **technical lead** on major initiatives, owning end-to-end delivery across design, development, testing, and deployment in on-premises and Azure cloud environments.
- Collaborated in **Agile/Scrum** teams to gather requirements, plan sprints, and deliver reliable, high-quality software aligned with stakeholder needs.
- Acted as **backup to the team supervisor**, representing the team in supervisor-level meetings, coordinating priorities, and **facilitating communication across development, business, and operations teams** to ensure alignment and timely delivery.
- Maintained and enhanced **legacy systems**, providing production support and ensuring continuity for mission-critical applications.

Software Frontend Developer Intern (PsySpace)

May 2021 – Aug 2021

- Developed a cross-platform app using **Flutter & Dart**. Responsible for recreating UX design in code for tens of app pages frontend interface development. Utilized hundreds of Dart widgets to provide a smooth UX.
- Used natural language processing and machine learning algorithms to assess user sentiment through text input.
- Worked with Firebase cloud database API to retrieve data from the cloud, minimizing local file size by 30%.

PROJECTS / OTHER EXPERIENCE

Automatic Stock Trading Bot (Python, Claude Vibe Coding)

July 2025 – Aug 2025

- Deployed a fully automated grid-trading bot via broker APIs; applied Martingale position sizing.
- Executed \$10k+ in automated crypto spot trades during live testing, focusing on system reliability, automation, and API-driven execution rather than manual trading.

Peer-reviewed papers on Domain Specific LLM Papers

Jan 2024 – Dec 2025

- Authored and co-authored peer-reviewed papers on designing and evaluating domain-specific LLMs across healthcare, finance/crypto, and business/accounting.
- Discussed how building a domain specific internal LLM can help cut costs, increase productivity and reduce fraud.

Project Manager/TA for Web Application Course(Javascript, MongoDB, Agile)

Jan 2023 – May 2023

- Led groups using Agile Methodology for web app projects. Assisted in planning, tracking project status, and ensuring deliverables were met.
- Helped teach building single page applications in groups. Coordinated team workload and collaboration.

Full-Stack Instagram Web App (School Project)

Sep 2022 - Dec 2022

- Used **Figma** to create UI/UX design from scratch and created an interactive prototype for the frontend interface.
- Utilized **React** to build a single page application (SPA) with state management, props, router, etc.
- Implemented **CRUD REST API** calls using Express and Node.js pulling from and uploading to AWS cloud storage.
- Designed **MongoDB** schema using **NoSQL** to store thousands of customer data. Realtime update and notification feature.

ENGINEERING SKILLS

- Engineering Stack: C#, .NET Core, SQL Server, JavaScript, Azure (Azure AI, OCR, RAG), REST APIs, React, Entity Framework