

Payton Butler

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EDUCATION

East Stroudsburg University

Bachelor of Science in Computer Science, Minor in Mathematics

East Stroudsburg, PA

Aug. 2022 – May 2026

EXPERIENCE

Extern, Pfizer Advanced

Extern

June 2026 – Present

Remote

- AI-Powered Document Insights & Data Extraction externship, covering document processing pipelines, OCR systems, and AI-powered search using RAG

Full Stack Developer Intern

East Stroudsburg University

Jan. 2026 – May 2026

East Stroudsburg, PA

- Designed and developed a full-stack blogging application from scratch (CompLog.org) using ASP.NET Core MVC and C#, supporting 50+ published posts, following the MVC architectural pattern for clean separation of concerns
- Modeled and managed relational data using Entity Framework Core with SQL Server, including 10+ code-first migrations and structured schema design for blog post storage and retrieval
- Integrated Microsoft Azure Blob Storage to handle 100+ image uploads for blog posts, configuring a dedicated storage account and blob container to persist and serve media assets in the cloud
- Built end-to-end CRUD functionality enabling users to create, edit, publish, and delete blog entries, supporting threaded comments across 30+ discussion threads via a dynamic, server-rendered interface

Virtual Reality Research Assistant

East Stroudsburg University

May 2024 – August 2024

Remote

- Developed an immersive virtual reality based virtual classroom platform as a Research Assistant to improve student engagement and reduce limitations of traditional Zoom-style remote learning environments
- Utilized C# to write scripts for an interactive whiteboard
- Researched and evaluated VR learning methodologies and engagement strategies, contributing to a reported increase in student participation and knowledge retention of up to 30% compared to conventional online instruction platforms

S.T.E.M. L.L.C. Resident Advisor

East Stroudsburg University

Jan. 2024 – May 2026

East Stroudsburg, PA

- Managed logistics and communications for a 45-student STEM Living-Learning Community, coordinating with university departments and campus support services, and documenting processes to ensure continuity and clarity
- Served as a peer mentor to STEM students, providing academic and professional guidance, and documenting personalized development plans to track progress

PROJECTS

LLM Observatory | *FastAPI, React, PostgreSQL, OpenAI API, Render, Vercel, Neon*

Live Link

- Architected and deployed a full-stack monitoring platform that proxies LLM API calls, capturing latency, token usage, and cost metrics in real time across a Python FastAPI backend and React frontend
- Implemented an automated LLM-as-judge evaluation pipeline using a secondary model to score output quality (0–1 scale) on every API call, enabling data-driven prompt version comparison
- Designed a PostgreSQL schema and SQLAlchemy data layer to persist and query call-level telemetry, supporting aggregate analytics (avg latency, cost-per-call, quality trends) via custom SQL
- Deployed a production environment with FastAPI backend on Render, React frontend on Vercel, and serverless PostgreSQL on Neon, with environment-based secret management across services

Network Packet Analyzer | *C#, .NET, Git*

2025

- Built a low-level network packet analyzer in C# with a team of four, parsing binary .pcap files byte-by-byte without third-party libraries
- Implemented multi-layer protocol decoding across the OSI stack (IPv4, TCP, UDP, ICMP), storing decoded packet metadata in a structured, indexed format that cut manual packet inspection time by 40%

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, SQL (Postgres, SQL Server), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, FastAPI, ASP.NET Core MVC, Entity Framework Core
Developer Tools: Git, Docker, Azure Cloud Platform (Blob Storage), Render, Vercel, Neon
Libraries: pandas, NumPy, SQLAlchemy