

Pearce Packman

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Experience

Software Engineer – Occams Group

[Website Link](#) April 2026 – Present

- Designed and built OccamsRecruit, a full-stack AI-powered ATS (React, Node.js, PostgreSQL) rated superior to the company's existing Zoho CRM at a fraction of the cost, on Azure infrastructure I provisioned and manage end to end
- Built 10+ AI-driven features (candidate scoring, resume parsing, autonomous LinkedIn sourcing via a Manus AI agent) through a governed Claude API layer with cost tracking, rate limiting, and prompt-injection defenses
- Implemented 680+ automated tests (Jest, Supertest, Playwright E2E) behind a trunk-based CI/CD pipeline with an enforced pre-push quality gate (automated code review, secret scanning, coverage checks)
- Testing and CI/CD approach recognized by the CTO as a model for engineering practices, sparking discussion of adopting it more broadly across the organization
- Set up Microsoft SSO (Azure AD) and Graph API integration for email/calendar workflows, plus a homegrown observability system and an in-app feedback and help center the team uses daily
- Sole developer across four shipped full-stack production systems, including a contact enrichment platform and the company's public website (optimized for AI-crawler visibility), presenting progress directly to C-suite
- Independently built OccamsEnrichment (TypeScript, PostgreSQL, Prisma), processing hundreds of bulk contact enrichments rated by the team as far more accurate than their prior tooling

Undergraduate Research Assistant – DAMS Lab (UMBC)

[Website Link](#) June 2025 – Present

- Built UMBC Navigator, a privacy-preserving indoor navigation app using 20+ Bluetooth beacons across 3 building floors, deployed via TestFlight
- Owned the hardware layer end to end (beacon installation, signal processing, device ranging) and implemented an A* pathfinding algorithm for real-time multi-floor navigation
- Presented at three UMBC research days, including a live demo for the CSEE department chair and research faculty
- Developing IoT hardware/firmware curriculum (ESP32, Arduino, Raspberry Pi, sensors, and actuators) for SPACES, a new UMBC course launching 2027

Skills

Languages: TypeScript, C++, C, JavaScript, Python, SQL, Bash

Frontend: React, React Native, Qt, HTML, CSS, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, PostgreSQL, Prisma, SQLite, Zod

Cloud, DevOps & Testing: Azure, Docker, GitHub Actions, CI/CD, ESLint, Neon, Jest, Supertest, Playwright

AI Tools: Claude API, Claude Code, Manus API

Auth & Integrations: Microsoft Graph API, Azure AD / SSO, JWT

Embedded & Systems: ESP32, IoT, BLE, MQTT, Sensor I/O

Tools & OS: Git, GitHub, Jira, Linux, Windows

Education

University of Maryland, Baltimore County - GPA: 3.60 / 4.0

Expected Graduation: December 2026

- Bachelor of Science in Computer Science*
- Coursework:** Software Engineering, Operating Systems, Data Structures, Computer Security, Algorithms

Carroll Community College - GPA: 3.83 / 4.0

August 2022 - May 2024

- Associate of Arts and Sciences*
- Honors:** Magna Cum Laude, PTK Honor's Society

Projects

CorePanel – Real-Time System Monitor

[GitHub Link](#)

- Built a C++/Qt desktop GUI with a C# backend streaming live CPU, GPU, RAM, and disk metrics via real-time charts

Smart Home Sensor System – Embedded IoT + Full Stack

[GitHub Link](#)

- Programmed ESP32 firmware and built a REST API + React Native dashboard for real-time environmental monitoring, Dockerized for deployment