

Benjamin Crocker

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EDUCATION

West Chester University Aug. 2023 — May 2027 (Projected)

Bachelor of Computer Science, Minor in Professional and Technical Writing

West Chester, PA

- Dean's List Fall 2023
- President of Computer Science Club
- Treasurer of: Competitive Programming Club, Cybersecurity Club, AI & Machine Learning Club

Berks Career and Technology Center Aug. 2020 — May 2023

Information Technology Programming

Leesport, PA

- Part-time student working on software development in VB.NET Winforms and learning various aspects of the Software Development Life Cycle (SDLC)

WORK EXPERIENCE

Help Desk Consultant Jan. 2024 — Present

West Chester University

West Chester, PA

- Supported users with various on-campus systems, including the Ellucian Banner SIS
- Tested and found security issues on university endpoints and systems

Information Technology Intern May 2023 — Aug. 2023

The Victory Bank

Limerick, PA

- Troubleshooted and provided support for endpoint devices, performed device imaging and configuration
- Supported VDI environments and maintenance of an ActiveDirectory domain

PROJECTS

Contributor, West Chester University ASL Interface (github.com/amiruzzaman/ASL_research) Feb. 2025 — Present

- Web interface for translating ASL to English and vice-versa
- Frontend built in AstroJS with Tailwind and daisyUI
- Live rendering of ASL animations (landmark data rendered to a Canvas to look like a person signing ASL) via JavaScript
- Connects to backend running a Flask web server to handle computationally complex tasks

Author, West Chester Programming Competition (bwc9876.dev/projects/wcpc) May 2024 — Present

- Web interface for holding and participating in the West Chester Programming Competition
- Built with a Rust backend and SQLite Database (can be switched)
- Uses AstroJS to build most of the frontend with Tailwind. Pages are server-side rendered (SSR) with Tera
- Supports SSO login with user's WCU account and OAuth account linking for easier sign-in later
- Users can submit code that is run in a sand-boxed "jail". Code output is tested against expected output for scoring
- Live leaderboard for tracking competitions, ability for competitors to export their code as a Git repository

Author, Outer Wilds Mod Manager (outerwildsmods.com/mod-manager) Dec. 2022 — Present

- Built and maintained free desktop application for downloading and managing mods for the game Outer Wilds
- Built in Tauri with Rust for application logic and a web UI frontend built in React with MUI
- Distributed on various platforms including Windows, MacOS, Linux, Steam Deck

CERTIFICATES

PA State Skills Certification - Computer Technology / Systems, NOCTI May 2023

OSHA 10 Hour General Industry Safety and Health, OSHA Mar. 2023

SKILLS

- **Programming Languages:** Rust, JavaScript, TypeScript, Python, C#, SQL, Visual Basic .NET
- **Technologies:** Git VCS, React, AstroJS, Tailwind, CSS, SASS, Bootstrap, MUI, Tauri, SAML, OAuth, LDAP, ActiveDirectory, GitHub Actions, Nix