

Alexander J. Bosco

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To see some of my personal projects: <https://alexbos.co>

TECHNOLOGY SKILLS:

	<i>Languages</i>	<i>Web/App Development Frameworks/Tools</i>
<i>Proficiency</i>	TypeScript, HTML/CSS, Go, Python, C#, Java, GDScript	SolidJS, Svelte, React, Tauri, Wails, AlpineJS, HTMX, ElysiaJS, Astro
<i>Familiarity</i>	PHP, Rust, C++, C, SQL	Docker, Postgres, Angular, Vue, Netlify, Stripe

EDUCATION:

Penn State University, The Behrend College (Erie, PA)
B.S., Computer Science

Graduated May 2024
144 credits completed

SENIOR CAPSTONE TEAM PROJECT

August 2022-May 2023

- Designed and created a 2D biomechanical motion analysis system to identify and quantify the risk of ACL injury in female athletes by extending existing open-source software, utilizing OpenCV, and implementing a series of complex matrix equations provided by our industry mentor.
- Developed a synchronization system to align the time scales of the output motion data with the independently collected force data.
- Designed and created a companion educational game intended to teach K-12 students about the risks of ACL injuries using the Godot game engine.

WORK EXPERIENCE:

Evolver LLC (Reston, VA)

December 2020-January 2021

- Assisted in the relocation of the entire IT infrastructure to a new building, ensuring a seamless transition with minimal downtime.
- Collaborated with the IT team to set up and configure workstations, meeting rooms, and network connections in the new location.
- Provided routine IT support, resolving technical issues related to hardware and software for staff members.
- Contributed to the maintenance of IT inventory, ensuring all assets were accounted for and properly set up post-move.

Cardinal Hill Swim and Racquet Club (Vienna, VA)

Assistant Manager

June 2016-August 2019

May 2015-June 2016

- Supervised approximately 20 attendants in teams of one to three.
- Northern Virginia Food Manager Certification.
- Short-order cook, cashier.

Bed Bath & Beyond (Vienna, VA)

Cashier

February 2018-August 2018

- Handled sales transaction volume in excess of \$2,500 per shift.
- Prepared manual tickets during a power outage to maintain customer traffic.

Chess Consulting LLC (Reston, VA)

Summer 2017

- Designed, purchased, and built a high-powered computer system for a forensic accounting firm.

OTHER EXPERIENCES:

Lockheed Martin Code Quest (2018)