

Andrew Yurovchak

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Education

Stevens Institute of Technology

Bachelor's of Science in Computer Science

Hoboken, NJ

Aug 2022 — May 2026

- Cumulative GPA: **3.74/4.0** | Dean's List (5 Semesters), Presidential Scholarship, Edwin A. Stevens Scholarship
- Relevant Coursework: Data Structures & Algorithms, Systems Programming, Operating Systems, Database Management, Web Development, Concurrent Programming

Work Experience

Software Engineering Intern - Interim Secret Clearance

May 2025 — Aug 2025

BAE Systems - C4ISR

Hudson, NH

- Rewrote a full-stack application in ES6 Typescript, upgrading frontend to Vue 3 and integrating a backend server framework and full unit testing suite
- **Reduced image build time by 98%** (6m20s to 5s) through layer caching and other Dockerfile optimizations
- Consolidated 3 pods into one with NGINX reverse proxy, **reducing total image size by 1.1GB**
- Designed a WebSocket communication protocol, abstracting connection and serialization details
- **Cut uncached page load time by 96%** (10s to 400ms) and **reduced resource payload size by 80%** (8.8MB to 1.8MB) with frontend build optimizations

Software Engineering Intern

May 2024 — Aug 2024

Jacobs Technology - Aviation Suite

Hudson, NH

- Developed error handling features and input screening for a **.NET-based load testing tool**, improving usability
- Expanded logging capabilities for a suite of **.NET** data packing applications
- Fixed bugs and implemented minor features across internal software products

Campus Involvement

Head of Development and Risk

Jan 2024 — May 2025

Stevens Student Managed Investment Fund

- **Led a team of 4 developers**, set project goals and managed development efforts
- Created a **React & NextJS** portfolio dashboard with a server side caching layer to avoid hitting an external API
- Built a containerized **Flask API** to forward data pulled from external sources to the frontend

Starting Team

Aug 2022 — Present

Stevens NCAA Division III Fencing Team

- Committing around 30 hours a week to practice, conditioning, and travel to 13 meets per season
- Strengthening **leadership and coaching skills** in a high-pressure, results-focused environment

Projects

QR Image Encoder (crates.io/crates/qart)

Jun 2024

- Created a **Rust** command line tool that encodes images into urls by manipulating the url fragment
- Published crate has **2300 downloads**, multithreaded implementation is **100x faster** than similar tools

Collaborative Text Editor (collab-notepad.baetylboy.biz)

Aug 2024

- Built a google-docs-style collaborative text editor in **Elixir** and **Svelte**, **creating my own algorithm** for resolving edit conflicts, using **property-based testing** to find bugs

Sticky Notes App (github.com/andrewyur/md-sticky)

Sep 2024 — Present

- Created a Sticky Notes note-taking app with **Tauri (Rust)** and **Svelte** with Markdown support
- Added **CI pipeline** with **Github Actions**, automatic update distribution and autosave features

Skills

- **Programming Languages:** JavaScript & Typescript, Python, Rust, C/C++, HTML/CSS, C#, Bash, Elixir
- **Frameworks:** React, Svelte, TailwindCSS, Vue, CUDA, Flask, .NET Core/Framework, NextJS, Tauri
- **Software:** Git, Docker, Buildah, Podman, Kubernetes, GitHub Actions, GCP, Azure