Andrew Yurovchak

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Education

Stevens Institute of Technology   Hoboken, NJ
Bachelor's of Science in Computer Science   *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, TCP/IP Networking, Contributing to Open Source Software

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