

ETHAN SEVILLA-SMITH

emss2004@gmail.com

(703) 980-9328

linkedin.com/in/ethan-sevillasmith

SUMMARY

Computer science student (3.9 GPA) with hands-on experience in systems programming, cloud deployment, and data-driven applications. Built projects ranging from custom servers and threadpools to invoice management apps and AI bots. Seeking an internship to contribute technical skills in a collaborative environment.

EDUCATION

Virginia Tech

Bachelor's in Computer Science

Blacksburg, VA (Expected Graduation May 2026)

GPA: 3.90

Northern Virginia Community College

Associates of Science in Computer Science

Loudoun County, VA (Graduated Jun 2024)

GPA: 3.71

Relevant Coursework:

Computer Systems; Computer Organization I-II; Data Structures & Algorithms; Algorithm Analysis; Databases

SKILLS

Programming - Python, Java, C, C++, R, HTML, PHP, CSS, SQL, Bash, RISC-V

Tools - Docker, Kubernetes, Git, XAMPP, Apache POI, VSCode, Eclipse, IntelliJ, PyCharm

EXPERIENCE

Manager/Technical Support | Manhattan Pizza | 2020 - 2025

- Managed and stored financial data from the company's point of sale system that ran on Java
- Wrote software sorting invoices via the bank's API utilizing Java
- Troubleshooted IT issues in the store and trained new staff

PROJECTS

Invoice Management System

- Built a JavaFX app for automated invoice sorting via Truist's REST API, with SQLite storage and Apache POI report generation

Personal Server

- Implemented a secure HTTP/1.1 server serving static files and supporting video streaming; containerized and deployed using Docker and Kubernetes for scalability

Custom Shell

- Built a Unix-like shell supporting job control, pipes, and I/O redirection, with signal handling for process management and custom built-ins (e.g., cd, history)

Fork-Join Threadpool

- Implemented a threadpool with work-stealing dequeues and futures, using locks and condition variables to ensure correctness and scalability in parallel divide-and-conquer workloads

Discord AI Bot

- Built a Discord bot on Azure with a lightweight LLM to interpret language commands and execute scripts

IP Route Plotter

- Developed a Python tool to visualize the network path packets take to a destination

Three Motor Sliding Bridge

- Engineered a retractable bridge with an ATmega 2560, integrating laser-cut/3D-printed parts and PID control for smooth motion

Others

- Two searching algorithms with a BST. One a Hash Table and the other a Bintree for multi-dimension searching
- An external sorting algorithm for large quantities of data using a min-heap paired with multi-way merge
- Implemented custom C functions of malloc, realloc, and free

EXTRACURRICULARS

- Mathematics tutor for calculus and linear algebra at Northern Virginia Community College
- Ranked 88th percentile in the National Cyber League(NCL) competition
- Chess Club member at Virginia Tech