Daniel Pavenko

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Technical Skills

Languages: Python, Java, C, C#, JavaScript, SQL, Bash, HTML, CSS, LaTeX | Russian (native), English (fluent)

Frameworks & Libraries: React, Node.js, Express, Tailwind CSS, Bootstrap, Axios, Sequelize, React Router, React Context API, Swing, Flask, ASP.NET, .Net

Tools & Technologies: Git (GitHub/GitLab), Docker, NPM, VS Code, IntelliJ, Vite, Eclipse, CLion, Linux/Unix, RegEx, Valgrind, PyCharm, Vim

Education

Shippensburg University of Pennsylvania — Shippensburg, PA
Bachelor of Science in Computer Science — *Jan. 2021 – Dec. 2025 (Expected)*

- GPA: 3.725; Honors & Awards: Dean's List for all semesters

Professional Experience

Cinteot — Chambersburg, PA
Associate Software Engineer — *Apr 2025 – Present*

- Developed a Policy Tracking web application using C# (ASP.NET) and PostgreSQL.
- Collaborated in a team of 7 using agile sprints to develop core features.
- Created technical documentation for users and developers to support onboarding and project maintenance.

Schreiber Foods — Shippensburg, PA
Technology Intern — *Aug 2023 - Present*

- Managed and maintained server infrastructure, ensuring 99.9% uptime for operations supporting 600+ employees.
- Deployed and configured enterprise hardware, facilitating seamless IT operations across the plant.

Projects

User Authentication System — `https://github.com/Danpav1/login_website`
React, React Router DOM, React Context API, Vite, Tailwind CSS, Axios, Node.js, Express, Sequelize ORM, SQLite, JWT, bcryptjs, dotenv, Formik, Yup

- Built a secure full-stack authentication system using JWT, bcryptjs, and OTP email verification (Nodemailer), supporting password recovery and protected routes.
- Developed a responsive, accessible frontend with React, Tailwind CSS, Formik, and Yup; connected to a scalable Node.js/Express backend with Sequelize ORM and SQLite.
- Designed RESTful APIs and streamlined client-server communication using Axios, improving maintainability and performance across the stack.

Unix Shell — `https://github.com/Danpav1/unix-shell`
C, Unix, Bash, Makefile, Fork, Exec, Wait, File I/O, Pipes, Process Control

- Developed a custom Unix shell in C with support for interactive and batch modes, I/O redirection, and parallel command execution via process forking.
- Implemented built-in commands (`cd`, `exit`, `path`) and constructed a robust search path system to resolve executable locations.
- Leveraged system calls (`fork`, `execv`, `waitpid`) to manage process lifecycle and concurrency, handling complex parsing and error control.