

# Dylan Boyer

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## EDUCATION

### Purdue University

Aug. 2022 – Present

*College of Science (Computer Science), 3.86/4.00 GPA*

*West Lafayette, IN*

- Relevant Coursework: Compilers, Operating Systems, Cloud Computing, Analysis of Algorithms, Computer Security, Data Structures and Algorithms, (Graduate) Statistical Methods, Computer Architecture, Systems Programming, Databases, Software Engineering

## EXPERIENCE

### Software Engineering Intern

May 2025 – Aug. 2025

*LinkedIn Corporation*

*Mountain View, CA*

- Worked on a team to enforce data compliance (adhering to DMA, CCPA, etc.) for major containerized LinkedIn services in <10ms
- Leveraged Apache Calcite to generate enforcement Java classes for various policy definitions at build time
- Designed a multi-threaded algorithm to determine the enforcement rate of 1.2 billion users for all 90 enforcement scenarios in <2 min on demand, preventing production issues by catching anomalies before deployment

### Software Engineer Intern

May 2024 – Jan. 2025

*Performance Services, Inc.*

*Carmel, IN*

- Redesigned controls' database schema and migrated over 7000 devices' data with no manual intervention
- Created a BeyondTrust log processor that continuously generates Datadog events for cyberattack prevention
- Developed a file processing script to generate tags for 400,000+ files with Egnyte's AI and API
- Collected school corporation debt obligation info in 12 key states to guide company sales pursuits using Selenium
- Modernized legacy VBA codebase and reported a 6x speedup on various RPA scripts with Selenium and Python

### Undergraduate Teaching Assistant

Jan. 2024 – Present

*Purdue University*

*West Lafayette, IN*

- Current UTA for Systems Programming, covering UNIX and bash programming, concurrency, networks, and disk
- Conducted two labs and office hours per week, monitored online question boards, and revised project handouts
- Former TA for CS 182 (intro algorithms/discrete math course) and CS 250 (Computer Architecture)

### Front-End Developer

Sep. 2023 – May 2024

*Purdue Boilere exams*

*West Lafayette, IN*

- Supported website providing Purdue exam preparation to 10,000+ students and 4,000,000+ question submissions
- Wrote TypeScript API hooks to retrieve and archive video explanation feedback for our content creators
- Implemented a user feedback dashboard using React to view ratings and identify critically-rated videos to do-over

## PROJECTS

### uplift. | *Flask, Python, PostgreSQL, AWS, React, TypeScript, TailwindCSS*

Jan. 2025 – Feb. 2025

- Built a full-stack fitness tracking app with a Flask API, PostgreSQL database, and React + TypeScript frontend
- Deployed the backend on AWS EC2 with a hosted PostgreSQL database, ensuring scalability and reliability
- Designed pages for exercise tracking, progress graphs from data, social features, and profile personalization

### Kaerugotchi | *C#, Firebase, Unity*

Aug. 2024 – Dec. 2024

- Worked in an agile scrum-based team of 4 to create a Tamagotchi-inspired habit-tracking game in Unity
- Designed pages for account creation, reset, deletion; a currency-driven shop, and multi-menu social features
- Used Firebase and C# to implement currency, shop spending, inventory, and adding/requesting/blocking users

### Unix Shell Interpreter | *C, C++, Lex, Yacc*

Feb. 2024 – May 2024

- Created a shell interpreter similar to csh, with user input tokenization, parsing, and syntax analysis
- Processed commands with support for UNIX commands, subshells, piping, file descriptor redirection, subshells, character escaping, zombie process elimination, wildcard and environmental variable expansion, etc.

## TECHNICAL SKILLS

**Languages:** Python, C, C++, C#, Java, JavaScript, TypeScript, SQL, HTML, CSS, Bash, x86 ASM

**Tools:** Command line proficiency, UNIX, Copilot, Agile, Scrum, Git, Vim, LaTeX

**Technologies/Frameworks:** React.js, MongoDB, Apache Calcite, Tailwind, Selenium, Firebase, Docker