Dylan Boyer

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EDUCATION

Purdue University — Aug. 2022 – May 2026
College of Science (Computer Science), 3.89/4.00 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 online data compliance (adhering to DMA, CCPA, etc.) for major containerized LinkedIn services in <10ms
- Enhanced online privacy enforcement components to support more SQL policy predicates (under NDA)
- Designed a multi-threaded algorithm to determine the enforcement rate of 1.2 billion users for all 95 enforcement scenarios in under 30s on demand, preventing production issues by catching anomalies before deployment

Software Engineering 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 Boilerexams — *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