Derrick Lin

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EDUCATION

Rensselaer Polytechnic Institute   Troy, NY
Bachelor of Science in Computer Science and Mathematics   *Aug. 2022 – May 2026*
- GPA: 3.5
- Coursework: Database Systems, Data Structures and Algorithms, Linear Algebra, Computer Organization, Principles of Software, Numerical Computing, Operating Systems
- Awards: Dean's Honors List

EXPERIENCE

Software Developer   January 2024 - May 2024
Rensselaer Center for Open Source   *Troy, NY*
- Utilized React, Node, and Tailwind CSS resolve bugs and feature requests of open-source web applications
- Contributed clear and concise guides and API documentation, facilitating easier onboarding for new contributors

Academic Tutor   September 2023 – December 2023
Rensselaer Polytechnic Institute   *Troy, NY*
- Facilitated one-on-one and group tutoring for 20+ students on topics of data structures and algorithms, recursion, dynamic programming, and differential equations
- Designed structured exam review sessions, creating targeted practice problems and study guides, helping students achieve an average 11% improvement between midterm and final exams

Pharmacy Technician   May 2023 – August 2023
Care First Drugs   *Elmhurst, NY*
- Managed inventory of over 200 products, conducting weekly audits and restocking medications, leading to 35% decrease in out-of-stock incidents
- Processed and filled over 200 prescriptions daily with a 99% accuracy rate, promoting workflow efficiency and reducing patient wait times

PROJECTS

Chessalyze | *Next.js, Prisma, PostgreSQL, Vercel*   August 2024 – Present
- Developed a web application simulating Chess.com's Game Review, offering a free alternative to paywalled features
- Sped up game analysis time by 12% through integrating Stockfish REST API and provided features of overall move accuracy, estimated level, and continuing positions against the engine
- Implemented user authentication and management features using JSON Web Tokens (JWTs) and a database to allow users to store and retrieve analyzed games

Proof Press | *MongoDB, Express.js, React, Node.js*   September 2023 – December 2023
- Built a Web3 application with authentication via MetaMask, intended for users to create and interact with posts

Crossword Gen | *C++*   March 2023 – April 2023
- Created a recursive backtracking algorithm to generate all valid board with constraints of board dimensions and include / exclude words
- Designed a graphical user interface (GUI) using wxWidgets, ensuring cross-platform compatabliity

TECHNICAL SKILLS

Languages: Java, Python, C / C++, JavaScript, TypeScript, HTML / CSS, R, MATLAB, LaTeX
Developer Tools: Git, PyTorch, NumPy, React, Next, Tailwind CSS, MongoDB, PostgreSQL, MySQL
Concepts: Software Engineering, Back-end, Front-end, Web Development, REST APIs