

Andrew Pareles

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EDUCATION

Cornell University, College of Engineering

Aug. 2017 – May 2021

Bachelor of Science in Computer Science, Minor in Physics, Minor in Mathematics
Cum laude, Dean's list junior-senior year

WORK EXPERIENCE

Co-founder, Glass Devtools, Inc. (Void Editor)

Jun. 2024 – Present

- Created an open-source AI code editor that grew to 28k GitHub stars and hundreds of thousands of users
- Managed the community of 45+ contributors. Led weekly meetups and approved a majority of PRs
- Built Void's codebase, including the local LLM router, the agent harness in VS Code, code checkpointing, diff streaming, and parallel threads
- Received multiple acquisition offers including from Cursor
- Part of Y Combinator's S24 batch
- *TypeScript, React, Electron, VS Code, GitHub actions, Git internals*

Co-founder, Derivelt (formerly Comm2)

Mar. 2023 – Jun. 2024

- Launched a forum to let professionals share advanced technical ideas efficiently (e.g. machine learning, quantum computing), which evolved into a computer science fundamentals platform
- Built a load-balanced submissions API, a custom Markdown interpreter that compiles to React, an in-browser editor, course content, and the site's visuals & layout
- Developed a growth strategy to acquire users. Hosted weekly meetings and wrote posts. Grew to over 3,000 monthly active users and 5 figures of revenue
- *TypeScript, React, Next.js, PostgreSQL, Tailwind, Kubernetes, AWS (EC2, S3), Supabase, Auth0, Framer Motion*

Research Software Engineer, Johns Hopkins APL

Aug. 2022 – Mar. 2023

- Led a team to estimate the resources needed to run a quantum computer. Collaborated with 2 postdocs and led monthly sponsor meetings
- Separately, formalized the mathematics for a tool that assigns vulnerability scores to critical government systems
- *Python, PyTorch, Docker, SymPy, Qiskit, Neo4j*

Software Engineer Intern, Sense Technologies

Jun. 2019 – Aug. 2019

- Worked with the CEO on a movie-recommending chatbot AI
- Improved the existing Messenger bot's response delay by over 50% using in-memory caching
- Generalized the chatbot harness and deployed it onto Google Assistant and a custom webapp
- *Node.js, Express, Firebase, Azure, LUIS, Cron, Webhook APIs from Messenger/Google/Azure*

RESEARCH EXPERIENCE

Columbia University

Aug. 2021 – Aug. 2022

- Built a tool that accurately generates Hamiltonians (matrices describing electron behavior) for materials with defects. Used it to visualize topological quantum effects around edge dislocations in graphene

Cornell University

Jan. 2020 – Sep. 2020

- Wrote parallel algorithms to run on the custom GPU architecture "HammerBlade" (C++, Python, CUDA)
- Created a novel optimization for repeated dense-sparse matmul by introducing a new PyTorch function and exchanging order-of-operations on specific algorithms, removing frequent cache misses almost completely on average workloads. Wrote benchmark implementations on HammerBlade and Intel Xeon architectures

TECHNICAL SKILLS

- **Languages:** TypeScript, Rust, Python, Java, OCaml, C, C++, Lua, SQL (Postgres & MySQL), Mathematica
- **Web and Markup tools:** React, HTML5, CSS3, Tailwind, LaTeX, Node.js, Next.js
- **Programming Coursework:** Functional Programming & OOP, Networks, Operating Systems, Algorithms & Complexity, Architecture (circuit design, Assembly, MIPS), Data Structures, Machine Learning
- **Other skills:** Graphics & art, Strong writing skills, Topics in theoretical CS & competitive programming