ALEX DING

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Work Experience

Jane Street Capital   *New York, NY*
Software Engineer | Metadata, Trading Platform   Aug 2024 - Present
> Providing liquidity to the market :)
Software Engineering Intern | Monaco, Networking; Kazoo, Core Services   May 2023 - Aug 2023
> Worked on network tooling and distributed pub-sub service in **OCaml**.

Google   *(Remote) Sunnyvale, CA*
Software Engineering Intern | GCloud GCP, Anthos Storage   Sep 2022 - Dec 2022
> Released **Kubernetes** Container Storage Interface Proxy v2 and migrated storage drivers in **Go**.

Bloomberg LP   *New York, NY*
Software Engineering Intern | Data Science Runtime   Jun 2022 - Aug 2022
> Developed **Kubernetes**-native toolings to integrate **Argo** workflows for ML Ops in **Go** and supported cluster migration to **Helm** charts.

Projects   *Complete projects available on my [website](#)*[1]

Bridge
> RFC-compliant IP, TCP, and HTTP implementation forming a virtual network via UDP sockets, interoperable with the real internet, written in **Rust**.

Surrealist Cloth
> Ray tracer implementing the Phong illumination model, texture mapping, and path tracing for support glass and metallic surfaces in **C++**.

SAT Solver
> Solver for the NP-complete boolean satisfiability problem using watched literals, conflict driven clause learning, custom variable decision heuristics, and random restarts, built in **Julia**.

Skills

Languages: Go, Python, C++, C, Rust, Java, TypeScript, JavaScript, Julia, OCaml, Bash.
Technologies: SQL, Docker, Linux, React, Kubernetes, GraphQL, GCP, Git, Jira.

Education

Brown University   *Providence, RI*
B.S., and M.S. in Computer Science (GPA 4.0)   Sep 2020 - May 2024
> Completed bachelors and masters in 7 semesters (1 semester interning at Google)
> Head Teaching Assistant for CSCI 1951A: Data Science

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[1] I also did a lot of work on deep learning research and full stack development, which you can read more about on my website.