YUMING **HE**

SOFTWARE ENGINEER, AI, QUANTITATIVE
Canadian Citizen on H1B Status; TN Status eligible

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Skills and Interests

Technologies: C/C++, Python/Django/Pandas, Rust, Java, JavaScript/Node.js/React.js, SQL, Unix, Git
Interests: Competition Programming, Piano, Distance Running, Backpacking, Swimming, Chess

Experience

Didero AI (Forbes Cloud 100, Bain Capital Ventures Top 50 Vertical SaaS)   Manhattan, NY
Founding Engineer; Python, React.js, AWS   *Mar 2024 - Present*

‣ Founding team member. Featured by Tech Crunch and Andreeson Horowitz. Built MVP of AI procurement automation platform resulting in early customers and $7MM+ seed round led by First Round Capital and Construct Capital, received AI Grant.
‣ Designed and implemented data intensive components such as live email consumer pipeline, AI workflow orchestration, Search, UI/UX, and other key features of the application.
‣ Architected and configured app deployment, databases, caching layer, and cloud networking on AWS. Built infrastructure as code with Cloudformation, Fargate, Route53, CodePipeline, etc.

Non-compete Period   Aug 2023 - Mar 2024

‣ Advised YummyFuture (YCombinator S19) on technology strategy, built Trippin (AI travel agent), travelled.

Citadel Securities   Chicago, IL
Software Engineer; C++, Python   *Aug 2021 - Jul 2023*

‣ Extended the core trading platform for *high frequency options* trading across exchanges in US, Europe, and Asia. Built out connectivity for new exchanges e.g. NSE, KRX, HKEX.
‣ Led development for build-out of tools and trading strategies for new desk specializing in cryptocurrency derivatives.
‣ Implemented daily critical path (vital to begin trading day) ETL pipeline for securities data from options exchanges to various data sources and APIs needed throughout the firm.
‣ Mentored 2 Interns and an early career hire.

Internships
‣ **Amazon Web Services** (Seattle, WA; May - Jul 2021): Implemented a distributed, multi-threaded, real-time analytics tool for Playstation Network CDN. Contributed to AWS Rust SDK.
‣ **Citadel** (Manhattan, NY; Jan - Apr 2021): Built a full-stack trade booking/forecasting model tool and compliance automation engine for the Global Fixed Income desk.
‣ **Facebook AI Research** (Menlo Park, CA; May - Jul 2020): Conducted analysis to capture data drift in the company's flagship Computer Vision model training set against live application data.

Education

The University of British Columbia
Honours, Bachelor of Science in Statistics and Computer Science   *GPA Total: 3.86, Major: 4.00*
‣ Major Entrance Scholarship, NSERC Award, Dean's Honour List, Vice President: Undergraduate Statistics Society, Elected Science Councilor, ICPC Pacific Northwest Regionals Div II gold medal.