Chris Dipert

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Education

University of Texas at Austin   Expected May 2027
Bachelor of Science in Computer Science   *Austin, TX*
- **Relevant Coursework:** Computer Architecture & Systems, Machine Learning, Statistics, Data Structures and Algorithms, Discrete Mathematics, Multivariable Calculus

Experience

JP Morgan & Chase Co.   June 2025 - Aug 2025
Incoming Software Engineering Intern   *Plano, TX*

Datadog   Jan 2025 - Present
Software Engineering Intern   *New York City, NY*
- Creating scalable, fault-tolerant API endpoints in Golang to handle load balancing across 5 datacenters monitored via Kubernetes, maximizing throughput & observability for clients.

TIAA   May 2024 - Aug 2024
Software Engineering Intern   *Charlotte, NC*
- Introduced automated data caching algorithm for large datasets, leading to 86% reduction in retrieval time ($\approx$1370ms$\rightarrow$190ms)
- Refactored backend code by leveraging Python and JQuery API, leading to improved API response time by 65%
- Utilized quantitative analytics and data visualization with Excel & Tableau to identify potentially defective storage volumes, leading to a 64% decrease in bug occurrences.

Lockheed Martin   Sep 2022 – May 2023
Software Engineering Intern   *Fort Worth, TX*
- Developed software suites to proactively monitor and optimize low-level software, leading to a 20% reduction in processing time, resulting in improved hardware performance.
- Achieved a 99.8% success rate in low-latency aerospace tests using Python and C++

Projects

AutoMetrix - *1st Prize, TIAA T3HACK '24* | *Python, NLP, yFinance, AWS (S3, EC2, CodeCommit, Bedrock), Figma*
- Leveraged AWS Bedrock Natural Language Processing (NLP) to extract key ESG metrics from fixed-income quarterly reports, improving data extraction efficiency by 99.92% ($\approx$7200mins$\rightarrow\approx$6 minutes)
- Created a portal for individual investors that utilizes quantitative modeling and ESG metric weighting to recommend 2000+ possible equities & fixed-income securities valuing environmental friendliness preferences whilst maximizing returns.

UT Registration Plus V2 | Chrome Web Store | Github | *TypeScript, ReactJS, CSS, ViteJS, Storybook, Semantic Release*
- Virtual chrome extension used by **60,000+** students at UT Austin to improve the course registration process via schedule aggregation, reducing manual schedule design process by over 85%
- Designing an overhaul of the extension with improved user-suggested features for Fall 2025 registration

Technical Skills

Languages: Python, Java, Golang, Rust, C++, JavaScript
Technologies/Concepts: Data Structures, Algorithm Design, Distributed Systems, Kubernetes, gRPC, Low-Latency Computing, Distributed Computing, Networking, System & Architecture Design
Clubs: UT Symphony Orchestra, Texas Financial Derivatives, University Securities & Investments Team (USIT), Longhorn Developers, Club Tennis