

Jonathan Trans

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EDUCATION

Master of Science, Fintech, Risk and Investment Analysis

University of Sussex Business School

Expected: Sept 2026

Brighton, UK

- **Relevant Coursework:** Quantitative Finance, Quant Programming, Machine Learning, Advanced Financial Modeling, Big Data Analytics, Financial Derivatives and Instruments, Investment Strategies, Risk Management, Market and Credit Risk Analysis, Algorithmic Trading, Portfolio Management, Empirical Finance, Corporate Finance, Blockchain

Harvard Online (HarvardX), Certificate in Fintech

Harvard University

Expected: Oct 2025

Remote, Cambridge, MA

Bachelor of Science, Computer Science

University of California, Davis

Sept 2019 - Aug 2024

Davis, CA

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Machine Learning, Artificial Intelligence, Data Pipelines, Web Development, Mobile Application Development, Database Systems, Operating Systems, Computer Networks, Computer Architecture and Organization, Computational Linguistics

EXPERIENCE

Software Engineer Intern

Tako | Python, Docker, Javascript, HTML, CSS

May 2024 - Aug 2024

San Francisco, CA

- Built Python ML pipelines for Tako's API to generate real-time visual "knowledge cards," improving data accuracy by 30% and reducing hallucinations by grounding outputs in authoritative data of finance and macroeconomics.
- Optimized data ingestion and processing to support single-domain, cross-domain, and time-based queries.

Software Engineer Intern

GAOTek | Python, React Native, Javascript, HTML, CSS

June 2022 - Sept 2022

Remote, New York, NY

- Developed and trained machine learning and artificial intelligence models for automated caption generation using Python, enhancing content engagement by 25% and reducing manual content creation time by 60%.
- Optimized existing web applications with the operations team using React Native, streamlining internal workflows and improving data accessibility, resulting in a 20% increase in operational efficiency.

Software Engineer Intern

University of California, Davis | Git/Github, C++, HTML, CSS, XML, LaTeX, PreTeXt

Apr 2021 - June 2021

Davis, CA

- Developed and designed an undergraduate, linear algebra coursework website and web application under Professor Ali A. Dad-del, using HTML, CSS, XML, PreTeXt, and C++ to provide coursework material to over 1000+ student users from Fall Quarter 2021 through Winter Quarter 2023 at the University of California, Davis.
- Implemented user-friendly interfaces and responsive design elements using LaTeX, ensuring accessibility and ease of use across devices, resulting in an increase of content engagement by 40% according to end-of-term surveys.

PROJECTS

Stock Market Dashboard | Python, React.js, Chart.js, Flask, REST APIs, PostgreSQL, Javascript, HTML, CSS

- Built an interactive stock market dashboard to help users visualize and analyze real-time and historical stock data, using React for the frontend, Flask for the backend, and Chart.js for dynamic chart rendering, resulting in a 40% faster load time compared to static charting solutions and over 1,000 API requests handled daily during testing.

Purchase-Order Processing | Python, Docker, React.js, Node.js, AWS, PostgreSQL, Javascript, HTML, CSS

- Built a full-stack application that ingests PDF purchase orders, extracts all line items using OCR, automatically matches them with the manufacturer's product catalog using a vanilla RAG pipeline, and outputs data that is ready for ERP upload. Replaced manual re-keying, slashing order-entry time while maintaining 90% match accuracy.

SKILLS

Languages: Python, C++, Java, JavaScript, C, C#, Swift, Kotlin, Objective-C, MATLAB, PHP, HTML, CSS

Frameworks: PyTorch, Flask, React Native, React.js, Node.js, Express.js, Next.js, Django, Spring Boot

Developer Tools: Git, Github, Docker, AWS, Google Cloud Platform, Firebase, MySQL, PostgreSQL, MongoDB