Jonathan Trans

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EDUCATION

Master of Science, Fintech, Risk and Investment Analysis　　　　　　　　　**Expected Graduation: July 2026**
University of Sussex Business School　　　　　　　　　　　　　　　　　　　　　　　　　*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, Portfolio Management, Empirical Finance, Corporate Finance, Blockchain

Bachelor of Science, Computer Science　　　　　　　　　　　　　　　　　　　**Sep. 2019 - Aug. 2025**
University of California, Davis　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Davis, CA*

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

EXPERIENCE

Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　　　　　　　**May - Aug. 2024**
Tako | Python, Docker, Javascript, HTML, CSS　　　　　　　　　　　　　　　　　　*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　　　　　　　　　　　　　　　　　　　　　　　　　　　**June - Sep. 2022**
GAOTek | Python, React Native, Javascript, HTML, CSS　　　　　　　　　　　　*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 40%.
- 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 Developer Intern　　　　　　　　　　　　　　　　　　　　　　　　　　　**April - June 2021**
University of California, Davis | Git/Github, C++, HTML, CSS, XML, LaTeX, PreTexT　　　　　*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, 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.

Red Panda Endangerment Chat Application | *React.js, Node.js, Google Cloud Platform, Firebase, HTML, CSS*

- Developed a chat-based web application using React for the frontend and Firebase on Google Cloud Platform for backend services and user authentication, which supported a digital campaign to raise awareness about endangered red pandas and helped grow a community of 1,500+ active users.

SKILLS

Languages: Python, C++, Java, JavaScript, C, C#, Swift, Kotlin, Objective-C, MATLAB, PHP, HTML, CSS
Frameworks: React Native, React.js, Node.js, Express.js, Next.js, Django, Spring Boot, Flask
Developer Tools: Git, Github, Docker, AWS, Google Cloud Platform, MySQL, PostgreSQL, MongoDB, Firebase