Jonathan Trans

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EDUCATION

Master of Science, Financial Technology, Risk and Investment Analysis **Expected Graduation: Aug. 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 **July 2023 - Aug. 2024**
AIMHI | Python, React Native, Javascript, HTML, CSS *San Francisco, CA*
- 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 Engineer Intern **June - Sep. 2022**
GAOTek | Git/Github, Kotlin, Android Studio, Firebase, HTML, CSS *Remote | New York, NY*
- Integrated new QoL features under TekApps Web Store Team using Android Studio and Firebase, improving the android application's functionality and user experience with a 35% increase in positive user feedback.
- Developed an Android application store using Kotlin, allowing developers to create future tool applications within.

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

Luxeteeth | Javascript, *HTML, CSS, Liquid, Shopify*
- Implemented responsive design techniques and customized the checkout flow within the Shopify platform using Liquid and JavaScript, reducing cart abandonment rates by 25% and increasing conversion rates by 18%.
- Developed sticky cart tools and marketing timers using Javascript, resulting in a 40% increase in sales.

Red Panda Endangerment Chat Application | *React.js, Node.js, Google Cloud Platform, Firebase, HTML, CSS*
- Developed a chat-based web application and website using Google Cloud Platform and Firebase as the backend cloud and authentication system, increasing awareness in the endangered species of red pandas sector by 20% with digital marketing and community use of the application.

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