Matthew J. Orford

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PROFESSIONAL EXPERIENCE

Software Engineer II at Brex   *January 2025 - Present*
- Pioneered a reverse ETL platform enabling product teams to operationalize Snowflake analytical data to Postgres and Kafka, shrinking time-to-insight by 60% and boosting data-driven capabilities across teams.
- Maintained and scaled core data infrastructure components including Apache Flink processing engines, Kafka messaging systems, Snowflake data warehouse, event publication/subscription services, and data materialization platforms—supporting 50+ business-critical applications.

Founding Engineer at Bable   *March 2025 - Present*
- Formulated the technical vision and roadmap for a promising early-stage startup, making architectural decisions that balance cost-efficiency with long-term product evolution.
- Built initial technical infrastructure from 0 to 1, developing core services and data models that enabled the team to ship an MVP within 8 weeks while creating a foundation for future extensibility.

Software Engineer IV at Credit Karma   *September 2023 - January 2025*
- Architected and led the development of a Kafka-based, high-performance mortgage application monitoring system, spearheading its evolution into a key company-wide platform and earning Credit Karma's *Exceptional Impact Program* award for the effort.
- Overhauled CI/CD pipelines for multiple microservices with CircleCI, Jenkins and Kubernetes, resulting in a 40% improvement in deployment efficiency and reducing application deployment time from hours to minutes across development, staging, and production environments.
- Mentored and managed three interns, guiding all to return offers through hands-on projects in data pipeline development and performance tuning.

Software Engineer III at Credit Karma   *June 2022 - September 2023*
Software Engineer II at Credit Karma   *June 2021 - June 2022*
Teaching Assistant at USC   *January 2021 - May 2021*
- Served as Teaching Assistant for USC's "Managing Data in C++" course, supporting 60+ students in advanced data structures and algorithms implementation.

Software Engineering Intern at Credit Karma   *August 2020 - December 2020*
- Collaborated with cross-functional teams including product management and design to launch the company's newest product, Credit Karma Money, directly contributing to a 20% increase in app adoption.
- Engineered an automated monitoring system for iOS App Store reviews, utilizing Python to process 10,000+ daily reviews with 95% accuracy in critical feedback identification.

Product Management Intern at Credit Karma   *May 2020 - August 2020*
- Strategized and guided the implementation of a new authentication protocol, effectively resolving VPN-related access issues for over 50,000 users monthly.
- Worked with stakeholders from analytics, engineering and design to revamp key user experiences related to account recovery and registration.

EDUCATION

University of Southern California   *August 2017 - May 2021*
B.S. in Computer Science
- *Honors*: Presidential Scholar, Dean's List
- *Activities*: Data Science Club, HackSC, Trojan Scholars Society, Ski & Snowboard Club

RESEARCH

ML Research Assistant at USC Department of Linguistics   *2021*
- Developed machine learning models using Python, scikit-learn, and TensorFlow to analyze viral RNA sequences, focusing on COVID-19 replication mechanisms.

NLP Research Assistant at USC Institute for Creative Technologies • *Los Angeles, CA*   *2020*
- Adapted OpenAI's GPT-2 to summarize complex visual combat simulation data, enhancing its applicability to military strategy and training scenarios.