Zeke Snider

SOFTWARE ENGINEER

San Francisco, CA

✉ zekesnider@me.com | 🏠 zeke.dev | ○ zekesnider | in zekesnider

Work Experience

Square   *San Francisco, CA*

Software Engineer - Risk Infrastructure   *January 2021 - Present*

- Built out Square's Risk integration platform, supporting both synchronous and asynchronous use cases. Engineered to streamline integrations between customer teams and Block's ML platform. Facilitated onboarding of 30+ integrations, handling 1,500+ total QPS. The platform supports a wide variety of message formats including Kafka, Google Pub/Sub, and gRPC, with client SDKs available in Java and Ruby.
- Tech lead on Risk Infrastructure team, upholding a standard of technical excellence. Worked with team's EM to improve processes and tooling.
- Designed and built Backstop Risk evaluation system, allowing Square to meet a 99.99% SLA to internal customers even during periods of system degradation for critical flows like payment acceptance and seller balance settlements.
- Designed and built Third Party vendor integration platform for Square Risk supporting 10+ integrations with 150+ total QPS. This reduced the development time for new integrations; it provides functionality for caching, storage, integration with ML platforms, and gRPC/GraphQL APIs.
- Orchestrated reliability improvement initiatives on the team. Leveraged Datadog and Terraform for detailed SLA tracking, and provided customer teams with monitoring by default.
- Designed and built entity tagging service, integrated with Square's operational platform. Worked cross-functionally with Risk engineering and operations teams to integrate with their workflows and improve tagging data quality.
- Assisted in team's migration from Square's on-prem data center to AWS using Kubernetes and various AWS services. Included contributing to shared Java libraries for Kinesis, DynamoDB, and SQS that are leveraged by teams across the company.
- Member of Square Incident Review Core, helping review outage reports to identify common themes, and spread awareness across the company to raise the reliability bar.

Software Engineer - Risk Management   *October 2018 - January 2021*

- Led the development of multiple Risk integrations across Fraud and Credit Risk domains. Included integrating with the ML evaluation platform, and authoring relevant ML features requested by the Data Science team to increase precision of Risk rules & models.
- Enhanced Square's Credit Risk controls, including Payment Limits, Reserves, and Credit Risk underwriting workflows. These controls provide safeguards to mitigate large credit risk exposure, and allow more sellers onto the Square platform.
- Developed integration with Apple's DeviceCheck service for Square POS, reducing repeat fraud from iOS devices.
- Designed and implemented internal functionality for real-time recovery of funds by offsetting interconnected Square account balances, resulting in an ongoing significant cost savings for the company.

FUJIFILM SonoSite   *Bothell, WA*

Software Engineer   *August 2016 - September 2018*
Software Engineer Contractor   *October 2015 - August 2016*
Software Engineer Intern   *May 2015 - September 2015*

- Built Cloud based diagnostics services to support the development and release of new Ultrasound systems. Used Node.js, Express, and Angular with a MySQL and S3 datastore. Deployed in AWS using EC2, AWS CodeDeploy, and CloudFormation.
- Added functionality on Windows 10 based Ultrasound system using C++ to collect and report diagnostics to the backend service.
- Used PKI to implement certificate installation procedure to allow Ultrasound systems in the field to securely communicate with the backend.
- Improved internal diagnostic applications by modernizing a legacy Windows application with a web based REST API version with improved functionality.

Education

University of Washington   *Bothell, WA*

B.S. in Computer Science and Software Engineering   *2013 - 2016*

- GPA 3.58
- Study Abroad Programs: Japanese Language — Keio University & Sophia University - Tokyo, Japan

Everett Community College   *Everett, WA*

Associates of Arts and Sciences   *2009 - 2013*

- GPA 3.59

Skills

Languages	Java, Ruby, JavaScript, Terraform (HCL), C++, Swift, Python, SQL, HTML, CSS
Frameworks	Guice, Jooq, React, Node.JS, Express, Bootstrap, Angular, Django, PKI
Databases	DynamoDB, MySQL, Amazon Aurora, Snowflake, SQLite
Services	DynamoDB, Kinesis, SQS, S3, Confluent Kafka, Google Pub/Sub, Snowflake, Datadog, EC2, SES, RDS, CloudWatch
Tools	Git, IntelliJ, Bazel, Xcode, JIRA