KIRA GHANDHI

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EDUCATION

The University of Chicago, Chicago, Illinois
BS Computer Science, BS Mathematics, 2016

EXPERIENCE

Braintree, San Francisco, CA
Software Engineer   **August 2016 - Present**
- Led project to migrate legacy self-hosted Ruby on Rails service into a Java microservice running in AWS deployed multi-region using Kubernetes. Reduced latency of critical, throughput-constrained endpoints by 8x.
- Launched Braintree's GraphQL API that replaces existing language-specific SDKs and handles traffic from large merchants such as Paymentus.
- Designed the API, add new features, and focused on scaling up the platform to handle the 10x increase in traffic.
- Led design and execution of Braintree's Samsung Pay integration from initial brainstorming to release in 10 months. Orchestrated technical and product roadmaps and managed communication with Samsung as well as merchants interested in integrating the payment method.
- Integrated new payment methods including Pay with Venmo, Apple Pay, and Google Pay into the core payments Ruby on Rails gateway.

Sprout Social, Chicago, IL
Platform Engineer (intern then part time)   **June 2015 - June 2016**
- Utilized MySQL, Cassandra, and Hadoop to cache, aggregate, and analyze social networking data and exposed that data via a Python REST API.
- Led research, design, implementation, and testing of a new, concurrent interface to Twitter historical data that allows users to track the popularity of keywords over time.
- Built support for a reporting tool involving polling data from Instagram, storing it in HBase, and aggregating it with MapReduce to store it in Cassandra where it is exposed via the API.
- Revamped a legacy Java system that worked with YARN to schedule Hadoop jobs to improve reporting and notifying about jobs.

Mission Street Manufacturing, Santa Barbara, CA
Software Engineering Intern   **June 2014 - August 2014**
- Developed agile front- and back-end in a cross-functional team for critical user-facing feature that shipped with all 3D printers allowing users to replace printing filament.
- Full stack engineer across iOS (Swift), web services (Python/Flask), and embedded hardware (Python running on a Raspberry Pi).
- Wrote unit, functional, and integration tests to cover both new and legacy code.

WRITING

REU in Mathematics, University of Chicago, Chicago, IL   **Summer 2013**
- Wrote a paper entitled "Khovanov Homology as an Invariant" with guidance from graduate students in mathematics and the professors of the courses (paper online at https://bit.ly/2HRBgYc).

Pay it Forward Blog post on Braintree Medium blog. https://bit.ly/2TuTNfk.

PROJECTS

- https://kaelen.me, a professional website for local Jazz musician Kaelen Ghandhi.
- ElmMan, an implementation of Pacman in the functional programming language Elm (compiled to JavaScript, HTML and CSS): https://bit.ly/2UP0Qkp.
- Hetris, an implementation of Tetris in Haskell, with the functional reactive programming library Helm: https://bit.ly/2FoNbtO.