Mike Freyberger

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WORK EXPERIENCE

- **Senior Software Engineer, Team Lead** — Oct 2018 - Present
  AppNexus — *New York, NY*
  - Productionalized streaming auctions replacement. 1.5M messages, 200k transactions, .5GB / second.
  - Created a new log level data feed for brands focused on transparency.
  - Leading the deprecation of our lambda architecture to cut costs (1M / year) and eliminate split brain from core transaction path.
  - Managing one software engineer.

- **Software Engineer II** — Oct 2017 - Sep 2018
  AppNexus — *New York, NY*
  - **Transaction Resolver**: Researched, designed, and built a replacement for our streaming auctions join.
  - Led the core team of 6 engineers.
  - Developed a container-based integration testing framework for testing distributed systems.
  - Implemented a custom kafka consumer group rebalance protocol to minimize cost of distributing state across consumers. Open sourcing this effort through KIP-315.
  - Presented the tech talk on the architecture and fault tolerance of this system.
  - **Transparency**: Technical lead and product manager for all transparency efforts.
  - Delivered two tech talks and served on a panel on blockchain in AdTech.
  - Led the integration of Lucidity onto our platform.

- **Software Engineer** — Sep 2016 - Sep 2017
  AppNexus — *New York, NY*
  - Technical lead and primary client contact for the integration with Amino Payments.
  - Technical lead for the exchange traded media product which involved a cross functional team of 7 other engineers.
  - Owner of the pricing components of the low-latency, distributed real-time platform.

- **Jesus' Economy**
  CTO — *Dec 2016 - Present*
  - Own and develop new features for the online store at jesuseconomy.org.
  - Developing a new donation website with a team of 2 software engineers.

- **Sizzle Technologies** — Princeton, NJ
  CEO and Founder — *Sep 2014 - Dec 2016*
  - Founded a web development contracting company.
  - Developed internal tools for Faithlife Corp.
  - Developed classroom.novumi.org and novumi.org.
  - Managed client relationships and led engineering teams of up to 4 engineers.

EDUCATION

- **Princeton University** — Princeton, NJ. Sept. 2012 - May 2016
  B.S.E., Electrical Engineering Magna Cum Laude — *GPA 3.88*
- **Senior Thesis**: Developed multiple attacks against ShadowCrypt, demonstrating the vulnerabilities of the secure I/O Chrome Extension. Published and presented in Privacy Enhancing Technologies Symposium 2018.

ACADEMIC HONORS

- **Phi Beta Kappa**: Academic Honor Society. Top 10% of class. Inducted May 2016.
- **Charles Ira Young Memorial Tablet and Medal**: Awarded each year to the student who excels in research in Electrical Engineering. Received May 2016.
- **Tau Beta Pi**: Engineering Honor Society. Top 12% of engineering class. Inducted April 2015.

PROGRAMMING SKILLS

- **Languages**: Java, C, Python, Javascript, Go   **Technologies**: Kafka, HBase, Cassandra, AWS, React