Mike Freyberger

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Education

- **Princeton University** — Princeton, NJ. Sept. 2012 - May 2016
  B.S.E., Electrical Engineering Magna Cum Laude — *GPA 3.88*

Academic Honors

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

Programming Skills

- **Languages**: C, Java, Python, Javascript, MatLab **Technologies**: AWS, React

Work Experience

- **AppNexus** — New York, NY
  Software Engineer — *June 2015 - Aug. 2015, Sep 2016 - Present*
  - Owner of the pricing components of our low latency, distributed real-time platform.
  - Technical lead for our exchange traded media product which involved a team of 7 other engineers.
  - Developed full stack web application for the internal finance team in order to fully automate invoicing a subset of clients.
- **Jesus' Economy**
  CTO — *Dec 2016 - Present*
  - Manage and lead all technology projects.
  - Own and develop new features for the online store at jesuseconomy.org.
  - Developing a new donation website with a team of two software engineers.
- **Sizzle Technologies** — Princeton, NJ
  CEO and Founder — *Sep 2014 - Dec 2016*
  - Founded a web development contracting company.
  - Developing internal tools for Faithlife Corp.
  - Developed classroom.novumi.org and novumi.org.
  - Managed client relationships and led engineering teams of up to four engineers.

Research

- **Cracking ShadowCrypt**
  Adv. Prateek Mittal — *Sep 2015 - May 2016*
  - Developed multiple attacks against ShadowCrypt, demonstrating the vulnerabilities of the secure I/O Chrome Extension.
  - Tested the stealthiness of the user interface attack on Mechanical Turk; 98.3% of participants did not notice the attack which validates the attack was stealthy.
- **Zero-Delay Secure Source Coding**
  Adv. Paul Cuff — *Feb 2015 - May 2015*
  - Determined encoding schemes that achieve optimal secrecy when the amount of shared secrecy is limited to 1 bit.
  - Determined how to optimally use a stochastic encoder in order to increase secrecy.
- **Steganography Assisted TOR**
  Adv. Paul Prucnal — *Feb 2015 - May 2015*
  - Determined effective schemes that utilize steganography in order for TOR traffic to be less susceptible to timing analysis attacks.
  - Decreased the average auto correlation from 98% to 42%.