

# Mike Freyberger

Research Projects: [www.freyberger.co](http://www.freyberger.co)

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## EDUCATION

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

## ACADEMIC HONORS

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- **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

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

## WORK EXPERIENCE

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- **AppNexus** New York, NY  
*Software Engineer II* Oct 2017 - Present  
*Software Engineer* Sep 2016 - Sep 2017
  - Technical lead 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.
  - 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](http://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.
  - Developing internal tools for Faithlife Corp.
  - Developed [classroom.novumi.org](http://classroom.novumi.org) and [novumi.org](http://novumi.org).
  - Managed client relationships and led engineering teams of up to four engineers.

## RESEARCH

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- **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%.