

# Bernard Marger

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## EDUCATION

University of Florida

Bachelor of Science in Computer Software Engineering

05/2016

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## TECHNICAL EXPERTISE

Competent in: **Golang, Java, C++, Javascript**

Familiar with: **Google Cloud, Amazon Web Services, Android Java, Python, ReactJS, Hack (PHP Dialect)**

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## EXPERIENCE

### Yik Yak

Platform Software Engineer

06/2016 – 12/2016

- Co-built the microservice to handle and direct all incoming write traffic from clients  
*Technologies used: Golang, GRPC, Protocol Buffers, Kubernetes, Google BigTable*
  - Modeled available endpoints after a previous version of Yik Yak's API
  - Received HTTP requests and converted them into protobuf structs
  - Rerouted requests through layers of abstraction and wrote entries to BigTable

### Facebook

Application Engineer Intern

05/2015 – 08/2015

- Built a permissions manager and reporting utility for a quota planning application in Facebook CRM  
*Technologies used: Hack, ReactJS, GraphQL, Relay*
  - Interfaced with Facebook's datastore using User Permission definitions written in Hack
  - Built a responsive UI in React that performed queries and mutations on those objects via Relay

### Sandia National Laboratories

Analysis Systems and Applications Intern

05/2014 – 08/2014

- Co-built a scenario visualization web app that simulates satellite orbits around the Earth  
*Technologies used: HTML, CSS, Javascript, WebGL, three.js*
    - Developed the front-end of the application and designed the core visualization
    - Crafted features such as orbit highlighting and line-of-sight visualizations
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## PROJECTS

### CalHacks Hack: [Kanashi](#)

11/2016

*Technologies used: Golang, Android Java, Twilio API*

- Implemented server-side logic to dissect intercepted packets and determine if they were malicious, wrote an Android app to drive "malicious traffic" within our network, hooked in the Twilio API for text alerts on detection

### Code for Good Hack: [culturED](#)

11/2016

*Technologies used: AngularJS, A-Frame, WebVR, three.js*

- Wrote the VR-enabled web application, built custom environmental assets for playing sounds on interaction

### Microsoft Imagine Cup, US Finals: [Gun Loc](#)

03/2016

- Conducted user and market research, spec'd out tasks for developers, built slide decks and crafted *the pitch*
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## PASSIONS

### Tech. Education and Literacy in Schools (TEALS)

AP Computer Science Principles Teaching Assistant

### SwampHacks: UF's Major League Hackathon

Co-Founder and Director

### UF Association for Computing Machinery (ACM)

Chapter President

## AWARDS

**CalHacks 2016** Grand Prize, Best Security Hack

**Sudo HackStetson 2016** Organizer's Choice

**MSFT Imagine Cup 2016** US Finalist, People's Choice

**HackIllinois 2016** 3rd Place Overall, Best MSFT Hack

**Bloomberg CodeCon S15** 4th Place / 162 participants

**UHack 2015** Honorable Mention

**Bloomberg CodeCon F14** 2nd Place / 85 participants

**Ultimate Software UltiCoder F14** 4th Place / 75 participants