

NATHAN JUSTIN

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EDUCATION

Harvey Mudd College

May 2019

B.S. in Computer Science and Mathematics, GPA: 3.7

Harvey S. Mudd Merit Award Recipient (4-Year Scholarship)

RELEVANT COURSEWORK

Software Development (Ruby/HTML) · Data Structures and Programming Development (C++) · iOS Development (Swift) · Principles and Practice of Computer Science (Python/Java) · Computer Systems (C) · Discrete Mathematics · Intermediate Probability · Probability and Statistics · Computability and Logic

SKILLS

Programming Languages: Python, Java, C++, Swift, R; currently learning C, Ruby, HTML, and CSS

Tools: Xcode, Interface Builder, Git, Latex, Firebase; currently learning Rails

WORK EXPERIENCE

Researcher, CS Teaching Tips, Harvey Mudd College

June 2016 – Present

- Researched on the effectiveness of computer science education on learning Common Core Mathematics
 - Writing NSF-funded paper on research topic as the main author, will be submitted for publication
- Researching, creating, and publishing teaching tips for www.csteachingtips.org

iOS Engineering Intern, Over App, Cape Town, South Africa

June – July 2017

- Used Swift 3, Xcode 8, and Interface Builder to develop and improve various features of the Over app
- Worked with 12-person engineering team on multi-project/photo uploads, collection feed thumbnail prefetching, and A/B tests via Apptimize for the app's UI; projects were implemented into the app.

Mathematics Intern, Trace, Huntington Beach, California

June – August 2015

- Gathered data from 2014 Men's Surfing Championship Tour; used R to create graphs and models for statistical analysis; presented findings to company
- Statistical modeling to refine water temperature detection for Trace devices
 - Created an experiment with Trace device; collected data of signals that device detects
 - Compared signals to actual water temperature; made linear regression models using R for detecting water temperature with Trace device

PERSONAL PROJECTS

Wigo

- Wigo is a startup that offers discounts at businesses in the Cape Town, South Africa area
- Worked as a full-stack iOS developer in a team with another iOS developer, 3 product managers, and 4 web developers to develop the Wigo app and website

Quiz Buddy

- Independently created iOS app that allows users to create and play with multiple choice quizzes on phone without having to connect to Internet, allowing for studying on the go

EXTRACURRICULAR ACTIVITIES

- **Leadership**: President and Computer Science Team Leader of the Prison Education Project at Harvey Mudd College · North Dorm Mentor
- **On-Campus Work**: Tutor at Homework Hotline · Tour Guide and Host for Office of Admissions