

# Robert Olsthoorn

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<https://github.com/rolstenhouse>

## Education

- **University of Florida, Honors Program** Gainesville, FL  
*Bachelor of Science in Computer Engineering, Minor in Physics* Aug. 2014 – May 2018
  - GPA: 3.67/4.0
- **Hong Kong University of Science and Technology** Clearwater Bay, Hong Kong  
*School of Engineering* Feb. 2016 – May 2016

## Work Experience

- **Microsoft** Redmond, WA  
*Windows Core — Software Engineering Intern* Sep. 2017 – Nov. 2017
  - Developed windows kernel driver to support new Intel chipset DMA functionality
  - Crafted a product specification to shape development direction of the driver
  - Sped up memcpy operation when zeroing out memory by offloading CPU work to DMA
- **Nextdoor — KPCB Engineering Fellow** San Francisco, CA  
*Monetization — Software Engineering Intern* May 2017 – Aug. 2017
  - Developed Ad inventory forecasting tool for advertising operations team
  - Built Django APIs to route SQS messages through an ad inventory management pipeline
  - Wrote ad targeting evaluation test suite and redis cache update task
  - Selected as 1 of 52 Engineering Fellows out of 2500 applicants
- **Microsoft** Redmond, WA  
*Compiler and Language Platform — Explorer Intern* May 2016 – Aug. 2016
  - Created VS Code extension to support static analysis tool file format SARIF using TypeScript
  - Authored PowerShell script to rewrite URIs referencing commit-dependent source files hosted in GitHub
  - Configured continuous integration platform, Appveyor, for static analysis tools supporting the SARIF standard
  - Refactored aspects of the SARIF SDK to comply with quality standards

## Notable Projects

- **Razzle** Seattle, WA  
*DubHacks: Awarded creative use of BlackRock API* Oct. 2017
  - Used Amazon's Alexa to interface with stock portfolio, execute trades, and provide financial insights
  - Hooked into Robinhood's Private API and used BlackRock's historical data API to provide valuable portfolio insights
- **PerfectPosture** Tai Tam, Hong Kong  
*BitwiseHacks: Awarded best software hack* Feb. 2016
  - Led development of OS X application to automatically dim laptop screen based on back-posture
  - Provided back-posture data through accelerometer on TI Launchpad implemented as a wearable

## Involvement

- (2018) Salsero in the Gator Salsa Club
- (2016) TA (Teaching Assistant) for CodePath Internship Preparation
- (2016) Assisted in organizing **hackUST**, Hong Kong's largest student-led hackathon
- (2015) Competed in CodeJam, Bloomberg's Codecon, Ulticoder, etc as a member of the **UF Programming Team**
- (2015) Held Treasurer executive board position of the **UF ACM chapter**

## Skills

**Languages:** Java, Javascript, C++, Python, SQL