Robert Olsthoorn

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Education

- **University of Florida, Honors Program**   Gainesville, FL
  Bachelor of Science in Computer Engineering, Minor in Physics   *Aug. 2014 - May 2018*
  - GPA: 3.64/4.0

- **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 developmnet 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 usisng 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 dedicated portfolio analysis and trade execution
  - Hooked into Robinhood's Private API and used BlackRock's historical data API to provide valuable portfolio insights

- **PerfectPosture**   Tai Tam, Hong Kong
  Bitwise hacks: 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

- (2017) 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