

OLIVER CHANG

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Education

University of Miami—Coral Gables, FL

BS, Computer Science and Geography May 2016

Mathematics Minor—GIS Certificate Program—General and Departmental Honors—3.86 GPA

Professional Experience

Parallel Computing Institute, University of Illinois, Urbana-Champaign—Urbana, IL

Research Assistant (REU), May 2015–July 2015

- Profiled nek5000, a Fortran MPI fluid dynamics simulator, to evaluate calculation/communication optimizations
- Pushed scaling limits of nek software against Blue Waters' hardware to achieve a 5% speedup on PGI compilers

Mobile, Pervasive, Autonomous Communication Technology Lab, Florida International University—Miami, FL

Research Assistant (REU), January 2015–Present

- Worked collaboratively with two others to create localization tools based on WiFi and LTE alternatives to GPS
- Created Android app for training & localization via WiFi using modern best practices like Fragment & DataProvider

Computer Science Department, University of Miami—Coral Gables, FL

Undergraduate Teaching Assistant, August 2014–Present

- Reviewed Java code for Intro to Programming with an emphasis on idiomatic, readable code
- Challenged small labs of Intro to Data Structures & Algorithms students with visualizations emphasizing edge cases

Physical Oceanography Distributed Active Archive Center, NASA Jet Propulsion Laboratory—Pasadena, CA

Science Data Engineering & Archiving Intern, June 2014–August 2014

- Consolidated existing metadata checkers for netCDF into a Python framework with verifiable suggestions
- Lowered cost & difficulty of compliance by creating a RESTful platform over a dependency-heavy local installation

Senzari, Inc—Miami, FL

Software Engineering Intern, March 2013–May 2014

- Led visualization for a Django dashboard written with Google Charts & CoffeeScript used to track visitor analytics
- Built one of the first FirefoxOS Apps in HTML5/jQuery Mobile to construct graph queries, once rated 4 stars

Skills

- Proficient in Python, JavaScript, Java, Unix, C, Android SDK
- Working knowledge of Fortran, Ruby, R, UML Modeling, API Design, \LaTeX

Activities & Honors

- “Improving Compliance for Earth Science Data Records” poster presented to Fall 2014 AGU
- Trained in engineering ethics by the National Center for Professional & Research Ethics
- Vice President of University of Miami's Association for Computing Machinery (ACM)
- Tutor for University of Miami's Camner Academic Resource Center (ARC)
- Recipient of the National Merit Scholarship
- Proficient in conversational French