

OLIVER CHANG

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Education

University of Miami—Coral Gables, FL

Bachelor of Science, May 2016

- Computer Science & Geography Major—Mathematics Minor—GIS Certificate & Honors Program—3.86 GPA

Professional Experience

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

Research Assistant (REU), May 2015–Present

- Profiled Nek5000, a Fortran MPI fluid dynamics simulator, to evaluate calculation/communication optimizations
- Explored effects of hardware vs. software on execution time with Blue Waters supercomputer to push scale limits

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

Research Assistant (REU), January 2015–April 2015

- 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, a MusicGraph querier with HTML5/jQuery Mobile, now 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 and Honors

- “Improving Compliance for Earth Science Data Records” poster presented to Fall 2014 AGU
- 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
- Conversational French