

Andrew Fiorillo

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EDUCATION

NEW COLLEGE OF FLORIDA
BA IN PHYSICS, WITH HONORS
May 2015 | Sarasota, FL

LINKS

LinkedIn:// **Andrew-Fiorillo**
Bitbucket:// **afiorillo1**
Github:// **andrewmfiorillo**

SELECTED COURSES

PHYSICS

Statistical Thermodynamics
Classical/Quantum Mechanics
Statistical Mechanics
Electrodynamics
Solid State Physics
General Relativity
Differential Geometry
Acoustics
Nanomaterials Research

COMPUTING & COMPOSITION

Analog Electronics
Python Programming
Audio Signal Processing
Scientific Composition with \LaTeX
Scientific Computing: Mie Scattering
Scientific Computing: SVD Analysis

RELEVANT SKILLS

PROGRAMMING

Over 10,000 lines:
Python • MATLAB • \LaTeX
Over 1,000 lines:
C++ • Ruby • HTML • QBASIC • R • SAS
Over 100 lines:
C# • Django • Fortran • Go • Haskell
Java • JavaScript • jQuery • Julia • Perl

SOFTWARE

MongoDB • Git • MATLAB • Fog
Visual Studio • GRAMS • AutoCAD
SketchUp • LabView • Microsoft Office

SYSTEMS DESIGN

FDA-compliant validation • Document-oriented and object-relational databases
System optimization and testing • Very high resolution image analysis

EXPERIENCE

INSPIRATA | SOFTWARE ENGINEER

May 2015 - Present | Tampa, FL

- Designed and implemented an Histology image database used for ingestion and divisional allocation (research/clinical).
- Constructed a GUI tool used for database administration, managed meta- and patient-data entry, and importing new images.
- Developed extensive and publishable documentation, designed test automation protocols, and optimized bottlenecks in an existing codebase.
- Managed a team of Histology Image Analysts, including developing the analysis tool and constructing a framework to process results.

NEW COLLEGE OF FLORIDA | LEAD TECHNOLOGY-STUDENT LIAISON

Sep 2012 - May 2015 | Sarasota, FL

- Provided desktop application support to faculty, staff, and students on the New College campus.
- Worked with IT Help Desk team to ensure consistent lab installations and acquisition of new equipment.
- Worked with IT Networking & Telecommunications team to improve campus connectivity and scalability.
- Served on Technology Advisory Committee to compose a Renewal & Replacement Plan for review by the president of New College.
- Authored documentation for the Office of IT to assist with troubleshooting and common end user issues.
- Authored reports detailing system status for the computer labs open to students on the New College campus.

ID TECH CAMPS | ASSISTANT DIRECTOR

June 2014 - Aug 2014 | Emory University, Atlanta, GA

- Oversaw the curriculum and activities of a sleepaway technology camp for 7-17 year olds with courses in programming and game design.
- Managed staff of 18 instructors and provided technical and academic support for their individual curricula.
- Provided point-of-contact customer service to parents of over 100 campers.
- Provided on-site technical support and network management for over 130 workstations.

RESEARCH

NCF PHYSICAL CHEMISTRY LAB | UNDERGRADUATE RESEARCHER

Feb 2013 - May 2014 | Sarasota, FL

- Worked with Prof Steven Shipman to translate a old Fortran code into highly optimized Python.
- Optimized a non-Fourier time-to-frequency-domain algorithm using SVD on sparse matrices.
- Implemented a distributed computing framework to further decrease computation time.
- Reproduced an algorithm which identifies dominant sinusoids, retaining important phase information.

STELLAR REFERENCES AVAILABLE UPON REQUEST.