

calistostudios.com melvyniandrag@gmail.com | 603.724.1451

EDUCATION

OHIO STATE UNIVERSITY

MASTER OF MATHEMATICAL SCIENC

Specialty in Computational Science Full Scholarship + Grants 2013-2015 | Columbus, OH GPA: 3.8

NJCU

BA IN MATHEMATICS

2012 | Jersey City, NJ Math, Science, Linguistics. Full Scholarship GPA: 3.8 / 4.0

BAYONNE HIGH SCHOOL

2006 | Bayonne, NJ AP Math, Science, English, History

LINKS

Github://melvyniandrag LinkedIn://melvyn-ian-drag YouTube://Melvyn Drag Blog://melvyniandrag

COURSEWORK

GRADUATE

Advanced Algorithms
Parallel Computing
Numerical PDEs
Computational Geometry
Analytical PDEs
Biological Simulation
Russian

UNDERGRADUATE

Differential Equations Linear Algebra Stats Mathematical etc. Spanish Linguistics

SKILLS

PROGRAMMING

I Love Working in C++ • Python • Vim • Linux I Want More Experience In Scala • CUDA • RTOS • d3.js Familiar: R • Java • SQL • noSQL • ETC.

WORK EXPERIENCE

DEKA RESEARCH AND DEVELOPMENT | SOFTWARE ENGINEER

MASTER OF MATHEMATICAL SCIENCE Feb. 2017 - Present | Manchester, NH

- Medical Devices
- Wrote Linux/DBus/Bluez5/Android8 Bluetooth software
- Researched and wrote elliptic curve encryption code
- Whole stack port from UTF-16 to UTF-8
- Wrote concurrent, resource contrained SQL library in C++
- Extensive unittesting and documentation
- Legacy software maintenance.

AVLINO | DATA SCIENTIST

Sep. 2015 - Feb. 2017 | Holmdel, NJ

- Researched algorithms, implemented in C++, Python and Spark
- Read and tweaked open source libraries to suit our needs
- Maintained hadoop cluster
- Produced business value from tera bytes of social media data
- Lead a team of junior devs. in software best practices

BATTELLE | Modeller

Jan. 2015 - Sep. 2015 | Columbus, OH

- Wrote and maintained terrorist risk analysis software in R, C++ and Excel VBA
- Ported Access DBs to Postgres
- Prepared presentations for senior devs to deliver to government officials

RESEARCH

THE SOTOMAYOR LAB | RESEARCH ASSISTANT

Jun. 2013 - Jul. 2015 | Columbus, OH

Development and healing of epithelial tissue. C++/Python code to represent tissue as a mesh. Differential equations at vertices cause the tissue to deform in life-like ways. Studied the beautiful geometry of epithelial tissue.

RECENT PROJECTS & ACTIVITIES

CALISTO STUDIOS | FOUNDER

Create and automatically grade (comp. vision) math tests. Global summary stats w/ graphics. C++, Python, OpenCV, Łacz, bash, docker, Django, html5, css, d3.js, etc.

ROBOTIC ARM | Hobby Project

4-axis robotic arm controlled via joystick with a beagleboard-xm and a chipKit uno32. See youtube.

TINY DIGIAL GUITAR AMP | HOBBY / COMMERCIAL PROJECT

Kiosk mode ARM/Debian project. Designed hardware and configured software to make a tiny digital guitar amp.

HACKERRANK, PROJECT EULER, KAGGLE, ETC. | PARTICIPANT

Maintiain strong coding skills through regular involvement in online contests.

AND MUCH MORE | Too Much For One Page

Contact for more information or visit links listed in first col.