

David Etler

Address 250 Central Avenue Apt. 611-4
Newark, New Jersey 07103

Mobile Phone 732-832-6126
Email davidretler@gmail.com
Website davidretler.github.io

Education

Dec. 2017 Bachelor of Science in Computer Engineering – New Jersey Institute of Technology

GPA: 4.0

Albert Dorman Honors Scholar

May 2015 Associate of Science in Engineering – Ocean County College

GPA: 3.95

Graduated *Summa Cum Laude*; Phi Theta Kappa Member

Programming Projects

RSA Encryption Program

- Implemented RSA encryption algorithm in Java with a classmate
- Included message encryption, decryption, key-pair generation, message signing, and signature verification
- Built an Android application to drive the program

Image Compression Algorithm

- Designed and implemented an algorithm for image compression in MATLAB
- Used discrete cosine transform to efficiently encode images, similar to JPEG

Orbital Mechanics Simulator

- Wrote a light-weight C program to numerically solve the N-Body problem
- Used numerical differential equation techniques to simulate the mechanics of orbiting bodies
- Implemented a user interface to render orbiting bodies in 2D with OpenGL

Employment History

Oct 2015 – Tutor and Mentor, Newark Kids Code

Present New Jersey Institute of Technology, Newark, New Jersey

- Teaching elementary school students from Newark about computer science and technology
- Assisting students in creating games and animations in the Scratch programming language

Oct 2014 – Peer Tutor, Mathematics Center

May 2015 Ocean County College, Toms River, New Jersey

- Tutored students in mathematics and physics
- Worked with students one-on-one and in study groups

June 2014 – Installer

Sep. 2015 Prestige A/C Installations, Carteret, New Jersey

- Assembled grills and organized products for shipment and installation

Skills and Proficiencies

- Compiled programming languages including Java, C, and C++
- Scripting languages including Python, JavaScript, and Matlab
- Simple web design with HTML, CSS, and jQuery
- Android development in Android Studio

Awards and Certifications

May 2015 *OCSPE Engineering Scholarship* – Ocean County Society of Professional Engineers

May 2015 *Scholarly Horizons Honors Scholarship* – Ocean County College Foundation Board

March 2015 *International Tutor Training Program Certification* – College Reading and Learning Association