

# James Oswald

Github: <https://github.com/James-Oswald>

Email: [jtoswald@albany.edu](mailto:jtoswald@albany.edu)

## EDUCATION

**The State University of New York At Albany, Albany, NY**  
*Bachelor Of Science (Expected May 2021)*

September 2018 - Present

Double Major in Computer Science and Mathematics.

### Academics:

3.86 Cumulative GPA

3.96 Computer Science GPA

3.86 Mathematics GPA

### Campus Involvement:

**Institute of Electrical and Electronics Engineers (IEEE) Branch** - Chair

- I oversee and run the largest engineering organization on campus and am responsible for the operations and management of our officers.
- I design and host workshops to educate students on emerging programming technologies and host mock interviews and hacknights.
- I coordinate events with tech giants and university researchers for our IEEE speaker series.

**Clarkstown South Highschool, Bardonia, NY**  
*Regents Diploma With Advanced Designation With Honors*

September 2014 - June 2018

Advanced Designations, Mastery in Math and Science.

### Academics:

3.7 GPA

### Extra-Curriculars:

Computer Science Club - Founder and President

Robotics Club - Lead Programmer

## WORK EXPERIENCE

**UAlbany DMM Lab, Albany NY — Undergraduate Researcher**

June 2020 - Present

I help research modern problems in data mining and processing. I primarily use technologies like python, matlab, numpy, tensorflow, and keras for this research.

**OuraniaGrimes.com, New City NY — Full Stack Developer**

July 2018 - Present

I design, maintain, and manage websites for clients using modern web technologies including Wordpress, LAMP servers, CPanel, JQuery, WebGL, 3Js, SQL and WebAssembly. This work has led me to become proficient in HTML5, Javascript, CSS, and PHP.

## FEATURED SIDE PROJECTS (These and more on GitHub)

**UAlbany IEEE Student Branch Website**

- A 3D First person website design for the UAlbany IEEE
- Key Technologies: Javascript, 3JS, WebGL

**V5 MIPS Assembler, Linker, Emulator**

- A MIPS Assembler, Linker, and Emulator in C++ with Java GUI via JNI
- Key Technologies: C++, Java, JNI, MIPS

**Eris**

- A 3D custom game engine and game in Java with OpenGL
- Key Technologies: Java, OpenGL, LWGL

## KEY SKILLS

**Programming Languages:**

Expertise in: C, C++, Javascript, Java

Proficiency in: Python, PHP, MATLAB, and Lua.

**Technologies:**

Software Technologies: Numpy, OpenGL, Boost C++ Libraries, Tensorflow, Keras, GNU Compiler Collection, Make, CMake, Visual Studio Code

Web Technologies: Node.js, Chart.js, WebGL, JQuery, CPanel, SQL, 3JS, WebAssembly, React, Express

## AWARDS AND HONORS

University:

- Membership in The University at Albany Presidential Honors Society
- University at Albany Dean's List (x3)
- Presidential Scholarship Recipient (x4)

Highschool:

- RIT Computing Medal
- Distinguished AP Scholar Award
- Eagle Scout
- National Latin Exam, Gold Medalist (x2)