

# Andrew Negrut

Software  
Developer

---

## Andrew Negrut

Houston, TX / Madison, WI

Phone: 608-473-5091

Email: andrewnegrut@gmail.com

GitHub: <https://github.com/Andrew-Negrut>

---

---

## Skills

**Languages:** Python (10 years experience), C++ (8 years experience), Java (4 years experience), SQL (1 year experience), JavaScript (1 year experience), MATLAB (1 year experience), Dart/Flutter (1 year experience), HTML (1 year experience), CSS (1 year experience).

**Tools:** PyTorch, TensorFlow, Pandas, Git/GitHub, Bitbucket, VSCode, Visual Studio, Eclipse, OpenCV, COBie, Confluence, Jira, Testcafe

**Other:** Computer Vision, Machine Learning, Deep Learning, Artificial Intelligence (AI), Algorithms, Data Structures, Competitive Programming, Linux, Operating Systems, Robotics, Data Science

---

---

## Experience and Research

---

### NSF REU at Rice DSP Lab / DeepTensor — Low-Rank Decomposition via Deep Generative Networks

May 2023 - October 2023, Houston, TX

Led testing and analysis program for the DeepTensor low-rank decomposition technique as part of the Rice DSP Lab in the NSF REU program. Implemented and compared state-of-the-art tensor denoising algorithms to DeepTensor. Pinpointed cases in which DeepTensor underperformed and leveraged the PyTorch framework to address these areas.

### Johnson Controls / Software Engineering Intern - Data Modeling

June 2022 - August 2022, Milwaukee, WI

Spearheaded COBie conversion in building automation effort. Developed efficient pipeline to produce usable JSON and Turtle formats for smart-building specifications. Refined Python data modeling skills.

### Summit Credit Union / Software Developer and Usability Tester

June 2021 - May 2022, Madison, WI

Designed and implemented Testcafe scripts in JavaScript to ensure the functionality of key elements of the online banking process. Familiarity with Confluence, Jira, and the software development workflow.

### Summit Credit Union / Teller

June 2021 - May 2022, Madison, WI

Led financial education presentations in my high school. Handled financial transactions among high schoolers, adults, and business leaders in Madison.

---

---

## Education

---

### Rice University / Computer Science

August 2022 - Present, Houston, TX

Pursuing a BS in Computer Science.

Cumulative GPA: 3.64

### University of Wisconsin-Madison

September 2019 - May 2022, Madison, WI

Cumulative GPA: 4.0

Computer Vision (COMP SCI 766), Matrix Methods in Machine Learning (COMP SCI 532), Programming II (COMP SCI 300), Honors Linear Algebra (MATH 341), Calculus-Functions of Several Variables (MATH 234), Calculus and Analytic Geometry II (MATH 222).

### West High School

September 2018 - June 2022, Madison, WI

Cumulative GPA: 4.0, National Honor Society

AP Courses Taken: AP Computer Science A, AP Calculus AB, AP Statistics, AP European History, AP Chemistry, AP Physics II, AP US History, AP US Government & Politics, AP Environmental Science, AP Music Theory, AP Spanish Language & Culture.

---

---

## Awards and Activities

Promoted to the Silver Division in the USA Computing Olympiad, a national competitive programming competition.

Founded and led the machine learning and AI club at my high school for two years.

Member of the Rice University Rowing Team.

