**Matthew Fan**

**Email:** [fanma@ucla.edu](mailto:fanma@ucla.edu) **GitHub:** @FusionForScience

Education

**Rolla High School: 2014 – 2018**

**Dual Enrollment at Missouri University of Science and Technology:**

**2015-2018**

* Calculus 1-3
* Discrete Math
* Data Structures
* Digital Logic

**Undergraduate at UCLA: 2018 – 2022**

* Computer Science

Work Experience

**Software developer intern at Missouri University of Science and Technology: 2014 – 2017**

* Used C++ and Qt to create a visualization tool for inductance
* Used Android SDK and Java to develop a battery analytics app for wireless charging

**Web Developer for MUELAN: 2017**

* Used HTML5, CSS3, and JS to create a static website for MUELAN

**Web Developer for ClearSig: 2018 –**

Skills

C++, Java, Python, JS, ReactJS, HTML5, CSS3, git

Activities

**FIRST Robotics**

* **FTC 5893: 2012 – 2018**
  + Team lead and lead programmer
  + Used Java
  + Used OpenCV to detect field elements and act accordingly
  + Created a robust command framework to easily manage robot components and actions that is used by other teams
* **FRC 6817: 2017 – 2018**
  + Founder and lead programmer
  + Used Java
  + Developed driver dashboard with C++ and Qt
* Outreach by running demos, hosting fundraisers and events, and reaching out to surrounding community

**Unmanned Aerial Systems at UCLA: 2018 –**

* Helped develop drone interface using ReactJS and Electron