

# Timothy Vu

<http://www.linkedin.com/in/timvu123>

Email : [timmyvu2020@gmail.com](mailto:timmyvu2020@gmail.com)

Mobile : 571-363-7065

## SUMMARY

---

Incoming Cornell Engineering student and Army ROTC cadet interested in software development and material science. Looking for opportunities/internships to gain work experience and develop my skills.

## EDUCATION

---

- **Cornell University School of Engineering** Ithaca, NY  
*Bachelor of Science - Computer Science with Minor in Materials Science Engineering* Sep. 2020 - Jun. 2024
- **Thomas Jefferson High School for Science and Technology** Alexandria, VA  
*High School Diploma - GPA: 3.93/4.0* Sep. 2016 - Jun. 2020
  - **Activities and Societies:** Mobile Apps Club (Treasurer), Model UN, Class Council (Vice President), Vietnamese Student Association (President), Chemical Analysis Research, Cross Country/Track
  - **Relevant Coursework:** Mobile Development, Web Development, AP Computer Science A Data Structures, AP BC Calculus, Physics Honors, AP Chemistry, Organic Chemistry, Research Statistics, Advanced Marine Biology, AP Biology, Design and Technology

## WORK/SERVICE EXPERIENCE

---

- **United States Naval Research Laboratory** Washington, DC  
*Research Intern* June 2019 - August 2019
  - **Science and Engineering Apprenticeship Program (SEAP):** One of 250 students nationwide selected for a paid 8-week research internship in material sciences at naval research laboratories sponsored by the American Society for Engineering Education (ASEE)
  - **Chemical Analysis:** Worked with Fourier Transform Infrared (FT-IR) and Raman spectroscopy techniques to construct a library of forensic materials for researchers at NRL and used to detect trace samples of narcotics and explosives
  - **Data Analysis:** Worked with Matlab, Microsoft Office and Origin to perform database operations/analysis on research results
  - **Scientific Writing/Presentation:** Gave a presentation on findings to a panel of distinguished guests and NRL scientists. Published a formal research report explaining results
- **Wesley Housing Development Corporation** Falls Church, VA  
*STEM Enrichment Program Director* June 2018 - August 2018
  - **Curriculum Design:** Led a team of six volunteers to design an 8 week summer camp program for low income elementary-aged children teaching basic chemistry, biology, and physics through hands-on activities
  - **Instruction:** Taught thirty students, grades 1-6, with lectures, hands-on experiments and computer activities
- **Reston Association** Reston, VA  
*Lifeguard* May 2018 - October 2018
  - **Certification:** Red Cross Lifeguard, First Aid, CPR, and AED Certification
  - **Leadership:** Responsible for keeping all guests safe by enforcing pool rules, maintaining proper pool chemistry, and maintaining a clean and friendly pool environment
- **Self-Employed** Oakton, VA  
*Math/Science Tutor* September 2017 - Present
  - **Teaching:** Tutored students from 2nd to 12th grade in mathematics up until calculus and science classes such as chemistry, biology, physics, and computer science (Java, Python, HTML/CSS)

## SKILLS

---

- **Programming Languages/Applications:** Java, JavaScript (React, Express, Node), HTML, CSS, SQL, Python, MatLab, Git
- **Engineering Design:** AutoCAD, Onshape
- **Research Techniques/Software:** Spectroscopy (Infrared, Raman, GCMS), Microsoft Office, OriginLab
- **Proficient in:** English, Vietnamese