

Mai Linh (Lawrence) Ngo

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Skills

- Programming: Accomplished in Java and Python
- Good knowledge of PostgreSQL, HTML, CSS, JavaScript, Agile Methodology, Linux, and Unix.
- Troubleshooting and Critical Thinking
- Initiative and Leadership: I played key role in leading a troop of more than one hundred Boy Scouts, coordinating activities, arranging camping/field exercises, and achieving the rank of Eagle Scout. Detailed community service project consisting in design, construction, and installation of donation boxes for local Temple.
- Fluent in English and Vietnamese

Academic Projects

- Geo-map representing the **Human Developed Index (HDI)** of the Association of Southeast Asian Nations with D3.js.
- Online Forum called **Storage Mates** that allowed for users to rent out their free space as storage for international students.

Work Experience

Data Visualization Software Intern at FXPAL (Jul. 2018 – Sep. 2018):

- Designing Data Visualizations for Machine Learning generated text summaries utilizing Python, MongoDB, Node.js, Express.js, D3.js, HTML, CSS, and JavaScript.
- Programming Hierarchical Agglomerative Clustering algorithm to group files based on their textual similarities utilizing the Cosine Similarity function and Bag-Of-Words Model.
- Programming Python scripts to parse over 200 thousand news article files to generate a Hierarchical Tree Structure.

Danser Lab Undergraduate Research Assistant at UCSC (Mar. 2017 – Jun. 2018):

- “*Bio-inspired Tensegrity Flexural Joints*” paper submitted to ICRA 2018 Conference (*Published in May of 2018*)
- Programming feedback control loop for Robotic Tensegrity Leg using C++ to program wireless IMUs.
- Working on applying different types of Machine Learning algorithms on IMU data.

Mathematics Administrative IT Assistant at UCSC (Oct. 2016 – Jun. 2017):

- Providing aid to the department by working with Microsoft Word, Microsoft Excel, and updating the UCSC Mathematics webpage using the WCMS Cascade Server.

Summer Orientation Leader at UCSC (Jul. 2015 – Aug. 2015):

- Assistance with class enrollment and provision of campus information.

Education

University of California, Santa Cruz

- **M.S. in Computer Science** (*Projected June 2019*)
- **B.S. in Computer Science** (*Sep. 2014 – June 2018*) – GPA (3.85/4.0)

Courses Completed:

CMPS 5J (Intro. to Java), CMPS 5P (Intro. to Python), CMPS 12B (Data Structures), CMPE 16 (Discrete Math), CMPE 12 (Comp. Systems & Assembly Language), CMPS 101 (Abstract Data Types), CMPS 165 (Data Visualization), CMPE 110 (Computer Architecture), CMPS 102 (Analysis of Algorithms), CMPS 104A (Compiler Design), CMPS 130 (Computational Models), CMPS 115 (Intro. to Software Engineering), CMPS 180 (Intro. to Database Systems), CMPS 183 (Web Applications), and CMPS 112 (Comparative Programming Languages).

Awards

- **Dean’s List Honoree (10 academic quarters)** – Maintaining above a 3.5 GPA.
- **BSA Eagle Scout** – Scouting’s highest rank.
- **BSA Campership** – Award for setting a good example of citizenship and achievement in the Scout troop, and abiding by the scout oath and law.