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Thong H. Vo

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EDUCATION

St. Olaf College, *Bachelor of Arts in Mathematics and Computer Science*, GPA: 3.87/4.0 *Anticipated Graduation: May 2021*
Relevant Courses: Mobile Computing Applications, Software Design, Algorithms and Data Structures, Directed Undergraduate Research, Cloud Computing, Independent Research in CS, Independent Study in Mathematics, Statistics for Science
Academic Awards: Dean's List *Fall 2017, Spring 2018, Fall 2018*

TECHNICAL / NON-TECHNICAL SKILLS

- C, C++, Python, Java, JavaScript, Expo, OpenGL, Django, HTML, jQuery, PostgreSQL, Docker, TensorFlow, Kubernetes
- Data structure, Algorithms, Object Oriented Programming, Linux, Mathematical Modeling, Test Driven Development
- Fluent in English and Vietnamese

PROJECTS

Member of Control Team, St. Olaf – Carleton Engineering Team, St. Olaf, Northfield *December 2017 - Present*
- Collaborated with a team of more than 30 members, created an algorithm, and programmed a voice controlled drone to finish Mission 8 of International Arial Robotics Competition (*Python*)

Member, Mobile Computing Application Class Project: Post Office App, St. Olaf, Northfield *January 2018*
- Programmed a mobile software (in *Java* for *iOS* and *Android*) in one month; with features:
  - Store information of all packages as well as the identity of the user in the database (*PostgreSQL*)
  - Notify the students whenever their packages arrived and automate checking and updating package information (*EXPO, API*)

Member, Project in Mathematics Application, Ho Chi Minh City, Vietnam *April 2016*
- Researched best practices for establishing a network of subway systems in other countries
- Designed two optimal models of undergrounds for Ho Chi Minh city that would lead to efficient transportation and high user satisfaction (*C++*)
- Presented the idea to the professor and clarified the result using algorithms, math, and statistics in a research paper

WORK EXPERIENCE

HiPerCiC Software Developer, St. Olaf, Northfield *April 2018 – Present*
- Developed and added new features to Cochlear Implant Training Application (CITA) to support Dr. Jeremy Loebach in doing research; updated CITA framework to serve more people accessibility under the guidance of Dr. Richard Brown (*Python, HTML*)
- Maintained, incorporated Test Driven Development, and wrote more than 100 test cases for CITA to create reliable software

Technology Consulting Assistant, IT Help Desk, St. Olaf, Northfield *December 2017 – Present*
- Supported the approximately 4,000 students, faculty and staff of St. Olaf College, along with St. Olaf emeriti and guests over the phone, via our ticketing system, and in person
- Collaborated with St. Olaf IT Staff to provide assistance for a wide range of hardware and software

LEADERSHIP

Vice President, Student Chapter of the Association for Computing Machinery, St. Olaf, Northfield *September 2018 - Present*
- Collaborated with the President to set long-term goals for the association and foster computing community at St. Olaf
- Planned social events, workshops, talks, contests, demonstrations, tutoring, and community service related to Computer Science

Team Leader, Software Design Class Project: Differential Equation Solver, St. Olaf, Northfield *September 2017 – December 2017*
- Created user-friendly software that could solve first order differential polynomials using six different methods, solve second order differential polynomials using Euler's method, and draw exactly the graph and slope field of that function (*C++, OpenGL, OOP*)
- Presented the project to Dr. Richard Allen and the class; evaluated social and ethics issues related to the software

ACTIVITIES/AWARDS

- Incentive prize in Vietnamese Mathematic Olympiads *Spring 2016*
- Team with the Best Model and Best Presentation Prize in Projects in Mathematics Application *Summer 2016*
- First place (Team) and Third place (Individual) at programming competition S-League, IU Top Coder (*C++*) *Spring 2017*
- Second position in MAA-NCS Competition (The Mathematical Association of America, North Central Section) *Spring 2018*