Michael **Cao**

Software Engineer

3050 Astor Drive, Burnaby, British Columbia, Canada, V3J 1K3

(+1)778-835-9953 | michael.cao@alumni.ubc.ca | expensivecow | michael.nam.cao

Programming

Procedural / Functional / Logical: C/C++; Assembly (8051,8052,64k,x86); Pascal (Delphi); R; Matlab;
Dataflow: SQL (TSQL,MySQL); PHP;
CLI: csh; bash;
Object-Oriented: C#; Java; Python;
Web: HTML/HTML5; CSS/CSS3; LESS; Javascript; CoffeeScript; TypeScript;
Frameworks: JQuery; Bootstrap; Express; N-Tier
Hardware: VHDL;

Education

University of British Columbia

British Columbia, Canada

B.A.Sc. in Computer Engineering · Specialization in Software Engineering

Sept. 2012 - May. 2018

Work Experience

Saab Technologies Ltd.

British Columbia, Canada

Junior Software Engineer

May. 2015 - Sept. 2016

- Created and Integrated starter development documents into media wiki improving performance of new employees from 2 weeks to 2 days.
- Composed modular reports used by customers contributing to an overall customer satisfaction rating above 92%.
- Proposed algorithms used to solve automation and emailing of crucial maritime information.
- Analyzed performance through time spent on programming tasks, using JIRA, leading to an increase in performance by approximately 20%.
- Applied well known software engineering techniques, such as modularity and use cases, improving the existing solid n-tier architecture product.

Computer for Schools

British Columbia, Canada

Computer Engineer Assistant

March 2012 - April. 2012

- Administered refurbished computers resulting in 3,000 shipments and highest shipment of the year.
- Accomplished highest shipment mark in history of organization leading to over 1,000,000 computers shipped overall.
- Proposed communication line resulting in roughly 60 shipments being completed within 2 days.
- Completed inventory count ending with 158 laptops and 215 desktops counted in 30 minutes.

Technical Projects

Collaborative Decision Making Maritime Prototype

May. 2015 - Sept. 2016

- Analyzed customer needs, including overall port consumption, resulting with an efficient port emission and cost control solution.
- Applied common software practices, such as agile methodology techniques, leading to a working prototype within 5 days.
- Facilitated daily scrums as scrum master improving communication and concise meetings within a span of 15 minutes.
- Runner up to company hackathon for production quality product proposed as a hot solution for efficient maritime business.

Image Processing Remote Control Pi Car

Mar. 2015 - Jun. 2015

- Lead a team of 4 computer engineers using management applications, such as trello and slack, resulting in 2 additional features implemented before deadline.
- Implemented algorithms solving communication between FPGA and raspberry pi leading to successful GPIO data communication.
- Optimized bit transfer rate through advanced communication implementations resulting in a speed increase of 6 frames per second.
- Demonstrated iterative testing cycles reducing risk of wasted time and feature creep.

Wheel of Lunch Github Contribution

Nov. 2014 - Dec. 2014

- Collaborated on a RESTful web application aimed at implementing a front-end click and drag on wheel enhancement.
- Demonstrated complex problem solving skills, such as debugging and abstract modeling, leading to 3 bug fixes and 2 extra enhancements within 2 weeks.
- Executed self-learned knowledge of HTML5, CSS, and Javascript, leading to a fully operational system as an end result.
- Pull request successfully accepted and now shown on main website and Github repository.

Interests

Software Quality, Software Reuse, Self Adaptive Systems, Hot Programming Languages, Cloud Computing, Software Maintenance, Neural Networks, Complex Networking Systems, Collaborate Software Development, Asynchronous Programming, Hot Frameworks