

Eric Pan

ericpan7412@gmail.com | github.com/PanTheMan | linkedin.com/in/eric-pan-waterloo | pantheman.github.io

WORK EXPERIENCE



ARISTA NETWORKS

Santa Clara, CA

Diagnostic/Infrastructure Engineer

Sept – Dec 2017

Work evaluation: Excellent

Arista Networks pioneers and delivers software-driven cloud networking solutions for large data center storage and computing environments

- Developed Python scripts to identify and optimize management cables, USBs, power supplies, and loopbacks for network switches
- Improved efficiency, executability, and readability of outdated code modules through code refactoring and clear documentation
- Created automated testing models in Python and C++ to evaluate hardware design
- Used Salt to design an unifying infrastructure to update code on production and allow scalability for new servers



VOICEBOX TECHNOLOGIES

Bellevue, WA

Data Platform Developer

Jan – Apr 2017

Work Evaluation: Outstanding

Voicebox's products use patented context management to model human communication that goes beyond the current one-question, one-answer paradigm

- Formulated critical ingestion pipelines that processes over 100 GB of web-scraped data daily, using Databricks with Apache Spark
- Implemented machine learning and automatic speech recognition software to create an application that analyzes hundreds of audio files and detects changes in tone of human speech
- Utilized Python and PostgreSQL to create CKAN extensions and allow batch upload/download operations to meta-data datasets on a database server



LUMOTUNE INC.

Kitchener, ON

Full-stack Developer

May – Aug 2016

Work Evaluation: Outstanding

Lumotune manufactures transparent electronic screens for storefront displays that are subtle yet visible in board daylight

- Thrived in a fast-paced start-up environment to improve the architecture of the display as well as develop new features
- Developed an interactive JavaScript application that features a 360° view of the product
- Used C++ and NodeJS to design a cascade firmware feature to split an image between multiple displays

QUALIFICATIONS

SUMMARY

- Experienced in designing and executing solutions for complex business problems involving large scale data warehousing and real-time analytics
- Passionate about code quality, usability, security, and scalability
- Skilled in the entire life cycle application development, as well as component and object-oriented development

LANGUAGES

Expert:

Apache Spark, SQL, AngularJS, NodeJS, HTML, CSS, C/C++, Python, Salt

Knowledgeable:

AWS, Neo4j, MySQL, Java, Oracle, UNIX scripting, Hive SQL, Linq, AJAX

Familiar:

XML, C#, Android, TypeScript

EDUCATION

UNIVERSITY OF WATERLOO

Bachelor of Computer Science
Class of April 2019 | Waterloo, ON
Term 4A | ID 20576124
Cum. GPA: 3.8/4

INTELLISOFT DEVELOPMENT INC.

Junior Developer

Work Evaluation: Excellent

Toronto, ON

May – Aug 2015

Intellisoft helps provides a responsive web portal and member management software and I was responsible for managing it

- Architected and implemented the design and deployment of servers and multitier applications for George Brown College, using a Groovy Java framework
- Created a calendar application that send emails on preselected dates using SQL, Java, and JavaScript
- Built unit tests using Jasmine framework to entire backend code

PROJECTS

CHESS | C++ Game

Nov – Dec 2015

Final Grade: 105%

- Developed with a partner, a classic Chess program with GUI using C++ and X11 following an object-oriented design
- Constructed various levels of difficulty with Artificial Intelligence
- Organized and prioritized tasks and managed workflow progress
- Earned bonus marks for extra content, including visual graphics and smarter AI

ACTIVITIES AND INTERESTS

PROGRAMMING ROBOTICS CAPTAIN

Sept 2013 - Apr 2014

- Met weekly with a team of students at University of Western Ontario
- Programmed robot with a raspberry pi to distinguish colors and determine where to move
- Actively involved in creation of a robot from the blueprint phase to the construction of it
- Won third in the Windsor Regional competition

SCIENCE OLYMPICS CAPTAIN

Sept 2010 - June 2014

- Organized weekly meetings to prepare students for annual regional Science Olympics competition
- Led practice sessions aimed to teach members scientific concepts and improve problem solving skills

AWARDS

MICHAEL-HAYMAN AWARD

June 2014

- Award for mathematical excellence during high school

AWARD OF EXCELLENCE

2011 - 2014

- Award yearly during high school for an average greater than 85%

FERMAT STUDENT CHAMPION

Feb 2013

- Award for achieving a perfect score on the annual Fermat Canadian Mathematics Contest by University of Waterloo

CANADIAN OPEN MATH CONTEST HONOR ROLL Nov 2012

- Award for placing in the top 150 contestants for the Canadian Open Mathematics Contest by the Canadian Math Society

