Recodeo Rekod

Contact

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Education

B.S. in Computer Engineering
Grand Valley State University
Class: 2013-2017
Honor:
International Merit Award

M.S. in Computer Science
Grand Valley State University
Class: 2018-2021
Focus:
Bio-Informatics
Thesis topic:
Bone fracture analysis using ultrasound sensors and Deep Learning

Programing languages

C, C++, Golang, Java, Javascript, Python, Ruby, VHDL

Machine learning tools

TensorFlow, Keras, Scikit-learn, Numpy, Pandas, Matlab

Frontend tools

VueJs, Angular, HTML, CSS

Backend frameworks

Django, Ktor, Ruby On Rails

Databases

Postgres, MongoDB ,Redis

Familiar Concepts

Caching, Data structures, Distributed Systems, DBMS, Docker, gRPC, HPC, Information Security, OOP, Machine Learning, Networks, NLP, Prototyping, SDLC and ,TDD

Languages

French: native
English: fluent
Spanish: fluent
Mandarin: basic

Experience

Patents classification system

Ontologics LLC   11-2019- on going project
- Successfully design and implement a deep learning model based on XML CNN that labels patent documents CPC codes.
- Deploy model to a cloud service.
- Study different methods to preprocess large amount of text documents.

Master Degree Thesis.   08-2019-Current
- Research and implement a method to study bone fractures using deep learning, and ultrasound sensors.

Graduate Research Assistant.   01-2019-Current
applied Medical Device Institute & Grand Valley State University
- Develop custom software for local health care providers. Most of the systems were web applications developed using VueJs, Angular, Kotlin, Python.
- Research and develop software for medical devices prototypes.
- Solve problems using machine learning(TensorFlow and Keras).

Software Engineer.   06-2018 to 01-2019
Adtegrity
- Write tools that integrate with Facebook Ads API, AdWords API, and LinkedIn ads API.
- Write tools that process big data to generate various reports for the marketing team.
- Tools: AngularJs, Ruby On Rails, SQL.

Senior Project.   01-2017 to 08-2017
Active Inspection & Grand Valley State University
- Design and implement an inspection system prototype. The system inspects parts such as metal, and glass at high speed.
- Tools: C++, Python, Microsoft Cognitive Toolkit(deep learning framework).

Embedded System Engineer.   08-2016 to 04-2017
Grand Valley State University
- Design, prototype PCB boards around ARM microcontrollers.
- Create PCB layout (up to 4-layers).
- Wrote interfaces for I2C, SPI and UART.
- Tools: C, EAGLE.

Co-Op Software Developer.   01-2016 to 08-2016
SalesPad LLC.
- Backend Web developer for Salespad cloud.
- Implemented features with C# and SQL procedures(when needed).
- Tools: C#, SQL, Microsoft SQL Server.

Projects

Soccer Drill Manager
- Web app built with VueJs, Django(python) combined with Postgres.
- SDM tries to help soccer coaches training children in our community by allowing them to share drills, and communicate easily . We plan to expand SDM to basketball in a near future(when time allowed).