Jarvis Wang

Computer Engineering Student | Software Engineer

CONTACT

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SKILLS

Programming Languages:
Golang, C#, Python, JavaScript, Java, C++, C, TypeScript, HTML, CSS, SQL, MATLAB, Verilog

Technologies & Frameworks:
Node.js, ASP.NET, Flask, Gorilla, Spring Boot, Angular, Microsoft SQL, MySQL, MongoDB, Firebase, AWS, Azure, CI/CD, RESTful API, OpenCV, Unity, PyTorch, Docker, Kubernetes, Dapr, Terraform, WebAssembly, Git, Bash, Powershell, Visual Studio, CMake, npm, Figma

AWARDS

3rd Prize |
DJI RoboMaster Robotics Competition
JUN 2021 & AUG 2019

CIBC Challenge Prize |
DeltaHacks V
JAN 2019

TOP 3 & Best Pitch |
McMaster IMPACT Project
DEC 2017

EDUCATION

McMaster University | B. ENG, Computer Engineering

SEP 2017 - APR 2022, HAMILTON, ON

EXPERIENCE

R&D Software Engineer Co-op | Huawei Technologies Canada Co., Ltd.

MAY 2021 - AUG 2021, MARKHAM, ON

- Designed, developed and delivered a PoC of Application Descriptor Model (ADM), a modular, extensible, and portable command line tool for modeling cloud application deployment with higher level yet consistent API. Compared with **Terraform**, ADM focuses on applications rather than cloud infrastructures.
  - Built with **Golang**, gRPC and cloud provider SDKs (HuaweiCloud, AWS)
  - **PoC adopted by the HQ product team**
- Designed and built a microservice-based automation workflow that leverages **Dapr**'s **Sidecar**, State Store and Binding APIs to decouple Kubernetes application deployment with external cache and database resources like **redis and MySQL**
  - Built with Golang, **docker** and **Kubernetes** client
  - Workflow designed for Huawei Cloud's serverless architecture
- Built WASI http library for **Java** to enable HTTP requests in WebAssembly modules

Cloud Software Developer Intern | SOTI Inc.

MAY 2019 - AUG 2020, MISSISSAUGA, ON

- Worked in an Agile team to develop, test, and maintain cloud based software using **AWS EC2**, **C# ASP.NET**, **MS SQL**, **Angular**, **NUnit**, **Karma** and **Protractor**
- Developed and optimized a **microservices**-based Cloud Management System that controls 10,000+ cloud production VMs, having improved SLA compliance to 99%.
- **Designed, built** and launched a monitoring dashboard for the company's orchestration system **from scratch** to improve operational efficiency by 300%

PROJECTS

BudgetBuddy - FinTech

SEP 2019 - PRESENT, HACKATHON (HACK THE NORTH 2019)

- A fin-tech tool that both provides individual-specific spending insights and collects aggregated non-personal data that can be used for marketing insights for businesses
- Data collected by TD Davinci API and visualized into clusters through **unsupervised learning** written in **Python** on a web app built with **Angular**

Banking Cat - Advising ChatBot

JAN 2019, **Won the CIBC Challenge at DELTAHACKS V**

- A financial advising chatbot that recommends the best banking solutions to the user based on their bank statements.
- Project built based on **DialogFlow NLP** platform and **Azure** Cognitive Services, and deployed on **Google Assistant** also with a web frontend written in **HTML** and **jQuery**

EXTRACURICULAR ACTIVICTIES

Computer Vision Lead | MAC RoboMaster Team

SEP 2018 - PRESENT, HAMILTON, ON (School Project Team for RoboMaster Competition)

- Manage a team of 10 student software developers to build an object-tracking algorithm for RC robots with gimbals, using **Yolo V4**(based on **CUDA** and **PyTorch**) and **OpenCV**(C++) on NVIDIA Jetson TX2, and improved the aiming accuracy by 30%
- Coordinate and manage all development tasks in **Agile**, train new members, and collaborate with control and mechanical teams on a big picture of the robot projects.