

Mike Kim

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SKILLS

Front-End Development | React js, Reduxjs / toolkit, React-Hooks, Axios, Redux-Thunk, JavaScript, JSON, HTML5, SASS / CSS, Bootstrap, tailwind

Back-End Development | Strapi js, Node js, Django REST Framework, PostgreSQL, Python, Redis, Stripe payment

Package Management | npx, npm, yarn, Docker, pip

App Deployment | Firebase, Railway.app, Amazon S3

Coding Life | git / gitHub, Scrum, Code review

Previous Career | Microsoft Visual Studio C++, QT C++

Soft Skills | Critical thinking, Time management, Communication, Teamwork

WORK EXPERIENCE

LaLaSol - Toronto, Canada

Freelancer Full Stack Developer

2023

- Spearheaded the development of LaLaSol's cutting-edge education platform, empowering teachers to effortlessly create courses through an intuitive interface utilizing pre-built components with real-time previews.

THALES - Toronto, Canada

Train Signal System Software & Tool C++ Developer

2021-2022

- Engineered tools for automated testing of London subway transit signal systems at Thales, streamlining the testing process and ensuring system reliability.

MIRUS - Atlanta, USA

Senior Medical Robotics Engineer. Stand-alone Application C++ Developer.

2019-2020

- Led the software development for a groundbreaking Spine Surgical Robot, involving FK and IK algorithms for Staubli Robot, path-planning, simulator creation, and interfacing with the Staubli Robot Server and Interface. Leveraged technologies including QT, VTK, and 3D fiducial Marker Interface.

Lee Chun Tak Hospital - Seoul Robotics Research Centre

Stand-alone Application C++ Developer: Contract (Orthoplanner S/W)

2014-2018

- Pioneered the development of the Knee Replacement Software, allowing physicians to predefine implant positions and rotations for femur and tibia, facilitating surgical simulations before the knee surgical robot executes procedures. Technologies encompassed VC++, MFC, VTK, and DICOM Transfer.

Professional Achievements:

- Founded and led ROBOWARE, establishing affordable personal robots for the educational market.
- Managed projects at WowWee, a leading robotic toy company, including the RSMedia and Elvis Presley Robot projects, overseeing production lines and developing embedded motion generation software.
- Participated in the development of the Canadarm (SSRMS, SPDM) and contributed to Hubble Telescope projects at MDRobotics, gaining substantial expertise in space robotics.

EDUCATION

SeyTech Bootcamp

Front-end Developer

2022

KUKA Advanced Robotics

KUKA LBR Platform Application Developer

2015

- Attained certification for KUKA LBR Med lightweight robot for medical applications. Completed Programming Certification Course in Augsburg, Germany.

University of Waterloo

Master Degree of Mechanical Engineering

1999-2003

- Received NSERC Full Scholarship and Fellowship.
- Developed the DynaSim S/W for multi-body motion simulation.
- Thesis: Multi-body Kinematics & Dynamics Analytical Simulation.

PERSONAL PROJECTS

I-Stacker Robot Platform

- Integrative retail and food service robotics platform (2020-present).

Home-made 3D Printer

- Constructed a 3D printer for prototyping (2018).

PID - Coffee Machine

- Designed a PID controller and mobile app for precise brewing temperature and weight control, compatible with any espresso coffee machine (2018).

POS System

- Developed a Point Of Sale system for a coffee shop, with a mobile device app connected to a web server (2018).