CHUNG ZHENG

Experience in Cloud, Software, Embedded Systems, Mobile, Web, Electrical

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EXPERIENCE

International Business Machines (IBM)

Cloud Developer (JavaScript)   📅 Aug. 2021–Present   📍 Toronto, ON

- Developed cloud native applications, leveraging the scalability & resiliency of containers and Kubernetes deployments.
- Deployed and administered containerized applications on Red Hat OpenShift.

Customer Success Manager   📅 Jan. – Jul. 2021   📍 Toronto, ON

- Coordinated multiple IBM lines of businesses to drive software deployments.
- Recommended solutions that best address customer goals and pain points.

Software Developer (JavaScript)   📅 Jan. – Dec. 2020   📍 Toronto, ON

- Built AI apps and Minimum Viable Products (MVP) using IBM Watson.
- Developed web app to triage Requests for Information via NLU.

Genetec Inc.

SDK Developer (C#)   📅 Sept. – Dec. 2017   📍 Montreal, QC

- Designed, implemented, and maintained Security Center SDK features.
- Wrote unit tests using NUnit to ensure functionality of API.

Teledyne DALSA

Software Developer (C#, C++)   📅 Jan. – Apr. 2017   📍 Waterloo, ON

- Developed desktop software to program and debug camera boards.
- Created automated test systems to facilitate Burn-In testing.

Molex Inc.

Embedded Developer (C#, C++)   📅 May – Aug. 2016   📍 Waterloo, ON

- Developed software to automate Bed-of-Nails testing for circuit boards.
- Assembled test rigs for testing and programming new circuit boards.

Metroland Media Group Ltd.

Mobile Developer (JavaScript,Java)   📅 Sept. – Dec. 2015   📍 Toronto, ON

- Developed and maintained e-commerce apps for Android and iOS.
- Implemented app indexing features to increase user engagement with apps.

KPMG

Jr. Software Developer (C#, VBA)   📅 Jan. – Apr. 2015   📍 Toronto, ON

- Wrote macros in VBA Excel to automate the processing of tax forms.
- Developed and maintained web-based tax compliance software for clients.

SKILLS

⌨ **Programming**

- Over 10,000 lines: C#, C++, C, Java
- Over 1,000 lines: JavaScript, Python, MATLAB
- Familiar: HTML, CSS, PHP, VBA, VHDL

⚡ **Electrical**

- Microcontrollers, circuit prototyping, soldering
- Multimeters, oscilloscopes, signal generators, power supplies

TECHNOLOGY

Containers   Docker   Kubernetes
OpenShift   CI/CD   Node.js   REST
GitHub   JIRA   Chatbots   Android
iOS   Raspberry Pi   Arduino

EDUCATION

Master of Engineering, Computer Engineering

University of Toronto

📅 Sept. 2018 – Aug. 2019

Bachelor of Applied Science, Honours Computer Engineering

University of Waterloo

📅 Sept. 2013 – Apr. 2018

CERTIFICATIONS

Certified Developer - Cloud Pak for Applications v4.1

IBM Professional Certification

📅 Issued Oct. 19, 2020

Engineering Intern (EIT)

Professional Engineers Ontario

📅 Issued Jul. 10, 2020

📅 P.Eng Expected Apr. 2023

RESEARCH AND TEAMS

MannLab
University of Toronto

📅 May. – Aug. 2019   🌐 mannlab.com

- Conducted research on human visual field of view using steady state visually evoked potentials (SSVEP).

High Altitude Balloon Team
University of Waterloo

📅 Sept. 2014 – Dec. 2016

- Performed programming and wiring for XBee prototype radio system.

University of Waterloo Satellite Team (WatSat)
University of Waterloo

📅 June 2014 – Aug. 2015   🌐 csclub.uwaterloo.ca/~watsat

- Developed tools using Python to monitor and transmit telemetry data.

PROJECTS

Brain & Eye Controlled Scooter
📅 May – Aug. 2019   ⑂ Python, C++

Prototype mobility scooter controlled by brain signals and eye movement.

Real-time Inventory Management
📅 May – Jul. 2019   ⑂ Java, C++

Mobile app for real-time inventory management, and analytics on customer interactions.

Spinal Cord Monitoring
📅 Jan. – Apr. 2019   ⑂ Java

Mobile app for assessing spinal cord compression using patient's biometrics.

COURSES TAKEN

University of Toronto
- Biometric Systems
- Sensory Cybernetics
- Intelligent Image Processing
- Design Trade-offs in Digital Systems
- New Product Innovation
- Authentic Leadership
- Leading in Groups and Organizations

University of Waterloo
- Robot Dynamics and Control
- Embedded Computer Systems
- Distributed Computing
- Computer Networks
- Database Systems

INTERESTS

- ⭐ Stargazing
- 📷 Astrophotography
- 🎥 Robotics
- ⚙ Embedded Systems
- 💓 Bionics
- 🏥 Healthcare
- 🖨 3D Printing
- 🎮 Esports