

JOSHUA KEARNEY

Software Engineer | Cloud Architect

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EDUCATION

B.Eng. Mechanical Engineering

Sep 2014 - Apr 2019

Memorial University

St. John's, NL

- **Cumulative GPA:** 3.56/4 (Engineering Dean's List)
- **Related Coursework:** Computer Vision, Image Process Signal Processing, Robotics and Automation

ENGINEERING EMPLOYMENT

Cloud Solutions Architect

Verafin (Nasdaq)

June 2019 - Current

- Developing cloud architectural solutions for an industry leading crime fighting software platform
- Designed and created an internal continuous deployment tool used by over 100 developers (frontend/backend)
- Leveraging cloud based (AWS) architecture solutions for microservice centric applications

Software Developer, Intern

General Dynamics

Sept - Dec 2018

- Developed a mission critical military networking software for a next-gen vehicle smart display (SNMP)
- Leveraged knowledge in Git/Bitbucket, Jira, Docker, embedded Linux architecture, programmed in embedded C

Analysis Engineering Intern

DuXion Motors Inc.

Jan - May 2018

- Created an electric aircraft motor cooling system that reduced the system temperature by 50%

Vehicle Engineering Intern

Kraken Robotics Inc.

May - Aug 2017

- Designed and manufactured a proprietary underwater electronic sensor system for an AUV vehicle, leveraging Arduino and mbed microcontroller architecture, debugged using oscilloscope, multimeter, and signal generator
- Reduced manufacturing costs of a major AUV vehicle component by 90%

Vehicle Engineering Intern

Rheinmetall Landsysteme GmbH

Sept - Dec 2016

- Developed the electronic packaging system for the Puma IFV vehicle communication network

INVOLVEMENT

Software Developer

Eastern Edge Robotics

Jan 2017 - May 2019

- Developed advanced robotic computer vision and path finding software using Python and OpenCV
- Created robot networking software (TCP/IP, Ethernet) using Embedded C and Arduino
- Competed in 2017 & 2018 International MATE ROV Competitions (CA, WA), placing 5th & 8th overall

Recent Software Projects

- **Personal Site:** Created a personal portfolio using ReactJS, visit www.joshpk.ca for additional information
- **Vehicle Detection Program:** Detects vehicles while driving using machine learning and computer vision
- **Python Salary Scraper:** Application that parses and displays cost value of a University Professors time
- **Remote Twitter Poster:** Hackathon built Chrome Extension to remotely post to Twitter from any website

SKILLS AND INTERESTS

Programming: Java (Spring/ Spring Boot) | Terraform | JS/HTML/CSS | Python (NumPy, OpenCV)
Software Tools: AWS | Docker | Linux/Bash | ReactJS | Git/GitHub | OAuth/JWT | Chrome Developer Tools
Volunteering: Head Coached 30 Member Competitive Swim Team | Resident Assistant & Engineering Tutor
Recent Reads: Cryptography Engineering | When Breath Becomes Air | Gödel, Escher, Bach | Snow Crash