ALEXANDER KINGSLAND

LinkedIn   (737) 733-0333   ¬ Website   Github   à alex.w.kingsland@gmail.com

SKILLS

Languages:	Python / Java / Kotlin / C / JavaScript / HTML / CSS / TypeScript / MATLAB / R / SQL
Libraries & Frameworks:	Numpy / Pandas / Matplotlib / H5PY / TensorFlow / SciPy / React / NodeJS / Unity
Tools & Technologies:	AWS Cloud Stack / REST APIs / Docker / MongoDB / Linux / TerraForm / Git / Bash

EDUCATION

Bachelor of Engineering – *Software Engineering*   **September 2016 – April 2021**
McMaster University | Hamilton, ON

➢ Achieving a cumulated **3.7 GPA** on a 4.0 scale, emphasis in **Data Structures & Algorithms** and **Software Design**.
➢ Received golden key award for students in the faculty of Engineering with a cumulative GPA in top 15% of the faculty.
➢ **Top Courses**: SE Design III, SE Project Management, Data Structures, Networks, Dynamic Systems, Linear Optimization

WORK EXPERIENCE

AWS – *Software Dev Eng II*   **Sept 2022 – Present**
ARC Zonal Shift   **Seattle, WA**
➢ Resolve operational issues in production code, ensuring optimal performance and availability of software systems.
➢ Design/Develop resiliency infrastructure focusing on recovery and availability of customer applications, resulting in successful launch and operationalization of a global tier 1 service with a widespread internal and external user base.
➢ Team lead for service expansion into isolated regions, required specialized design work at the DNS layer and driving sprint work between multiple service partners, resulted in service availability in air gapped networks and customer adoption.
➢ **Tech Stack**: Python, AWS[EC2, Lambda, SQS, DynamoDB, CloudWatch], Docker, Bash scripting

Pinwheel – *Software Dev Eng I*   **June 2021 – Sept 2022**
Systems Integration   **NYC, NY**
➢ Specialized in design and implementation of web scraping and data extraction systems, utilized these systems in production environments resulting in an increase in business conversion metrics.
➢ Responsible for managing and developing internal projects end-to-end, aligned with stakeholders and lead dev teams to deliver these projects on schedule and within budget.
➢ **Tech Stack**: MS Excel, Git, Bash, Python, MS Word, Windows, Linux

MDA Corporation – *Software Engineering Internship*   **April 2019 – August 2020**
Machine Learning R&D   **Toronto, ON**
➢ Developed a **Machine Learning** pipeline to successfully predict rate limits of the Canadarm within **10%** accuracy.
➢ Predicted reduction in mission operation analysis time from 2-3 weeks down to 1-2 days as a result of this tool.
➢ **Tech Stack**: Python, HDF5, Numpy, MATLAB, TensorFlow 1.x/2.x, Matplotlib, Git, Oracle VM, Bash, Paramiko

PROJECTS

WhatsOnTheOtherSide – *Interactive Map*   **Jan 2023 – Feb 2023**
Software Application
➢ Developed an iOS app that shows nearest land mass to the coordinates opposite the user's current location
➢ Displays links to events surfaced at nearest land mass, includes an interactive map for custom coordinate entries.
➢ **Tech Stack**: Swift, iOS, AWS infra, Python, MapBox API

HedgeHog – *AlgoTrading Platform*   **March 2020 – July 2021**
Software Application
➢ Developed an investing platform that interfaces brokerages to automate parallelized algorithmic trading.
➢ Application accumulates specified market data to create optimized historical datasets to back test custom strategies.
➢ **Tech Stack**: Python, Numpy, Pandas, H5PY, REST, IB API, Questrade API, Dropbox, matplotlib

ProFlightPhotography – *Drone Photography*   **July 2017 – July 2021**
Start Up
➢ Selling the service of aerial photo shoots for realtors and private car collectors.
➢ Purchased a drone, marketed myself, created a website, business cards, and learned the basics of starting a business.
➢ **Tech Stack**: DJI Pro App, DJI Phantom 4 Advanced, Adobe Photoshop, Adobe Lightroom