# ALEXANDER KINGSLAND

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

## SKILLS

**Languages:**                     Python / Java / C# / C / JavaScript / HTML / CSS / TypeScript / MATLAB / R / SQL

**Libraries & Frameworks:**     Numpy / Pandas / Matplotlib / H5PY / TensorFlow / SciPy / React / NodeJS / Unity

**Tools & Technologies:**     REST APIs / Docker / MongoDB / Linux / Windows / Git / Bash / Doxygen / LaTeX

## 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, SE Testing, Networks, Dynamic Systems, Linear Optimization

## WORK EXPERIENCE

### AWS – *Software Dev Eng II*                     Sept 2022 – Present
*Systems Integration*                                                          **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, resulting in increased customer adoption.
- ➢ **Tech Stack**: Python, AWS[EC2, Lambda, SQS, DDB, CloudWatch], Docker, Bash scripting

### Pinwheel – *Software Dev Eng I*                     June 2021 – Sept 2022
*Systems Integration*                                                          **Manhattan, 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*                                                          **Brampton, 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.
- ➢ Created documentation and courseware modules covering concepts implemented in the pipeline and held weekly meetings to ensure a seamless transfer of knowledge to the software engineers taking over the project.
- ➢ **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