

 kelvinfilyk@gmail.com

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 @kfilyk

 1-778-700-1034

SKILLS

+ Python (Tensorflow, PyTorch,
+ Keras, OpenCV, Pandas, NumPy,
+ Django), Javascript (Node, React,
Typescript, JQuery), AWS (EC2,
RDS, S3, Lambda, SageMaker,
Cloudwatch, Budgets)

+ C++, SQL, Git, Selenium, Jenkins,
+ MQTT, Google Apps Script,
Streamlit

+ C# (Unity), Go, Java, Docker,
Mercurial, Pentaho

EDUCATION

University Of Victoria

Undergraduate in Software

Engineering | Sept 2016 - 2021
Advanced C++, Deep Learning,
Computer Vision, Statistics, Linear
Algebra, Calculus, Data Mining,
Security, Numerical Analysis, Full-
Stack Development, Project
Management, Testing, UX/UI
Design, Database Architecture,
Embedded Systems

Concentration in Biology | Sept 2013 -
May 2016

Relevant Courses: Chemistry,
Biology, Physics, Organic
Chemistry, Laboratory Work,
Technical Writing

INTERESTS

- Multi-instrumentalist, musician
- Hydroponic gardening,
mushroom cultivation
- Running, volleyball, swimming,
surfing, tennis, camping, cycling
- Interior design, home
renovations, woodworking
- Board games

KELVIN FILYK

FULL-STACK SOFTWARE ENGINEER

EXPERIENCE

Software Manager (Python, Django, React, AWS, GoogleScript, MySQL)

AVA Technologies | January 2022 - Present

- Lead software team; oversaw direction and progress on company-wide technology goals
- Built greenhouse management application featuring IoT device integration, crop data collection, and AI plant diagnostic tools via a fast, aesthetic web platform
- Oversaw development of computer vision diagnostic and analytical tools for assessment of plant health, growth, and stressor factors
- Built inventory trackers and backend tools used by engineering and sales teams
- Managed and optimized AWS resources, security, and infrastructure
- Maintained QA infrastructure and mobile app testing

Python Developer (Python, PostgreSQL, AWS)

Styx Intelligence | September 2021 - April 2022

- Developed multiple steps in a data scraping pipeline via AWS Lambda
- Employed multiple Pythonic security and scraping libraries (Scrapy, BeautifulSoup, Urllib3, PhantomBuster, Requests) for conducting fraud detection, identity collection, sentiment analysis, and web traffic monitoring
- Tracked and logged pipeline results and health via AWS CloudWatch
- Implemented multithreading, optimization, and triggers for scraping tasks

Backend Developer Co-op (SQL, Java, Pentaho, GIS)

Natural Resources Canada | September 2018 - September 2019

- Developed backend for a geospatial forestry management application pertaining to fire, harvest, and disease data
- Built ETL analytical processing pipeline and API for huge datasets (40GB)
- Set iterative project milestones using AGILE; collaborated via Mercurial repository under a high security, team-oriented environment

Technical Management Co-op (Javascript, GoogleScript, WordPress)

Startup Skool | May 2017 - September 2017

- Developed and taught comprehensive CS and math curriculum to high-school students
- Build internal tools for aggregating and processing client registration and revenue data
- Optimized and deployed company WordPress website

Lead Developer (Django, React, Javascript, PostgreSQL)

UVIC Biomedical Engineering Club | April 2019 - August 2020

- Developed application for collection of sensitive medical data
- Hosted on Heroku platform
- Performed client elicitation, club representation, and branding

PROJECTS

ROOTS (React, Django, Node, Git, AWS, MQTT)

AVA Technologies

An AWS-hosted greenhouse management web application featuring IOT device communication, crop data collection, and AI-based plant diagnostic tools.

S2Mosaic (C++, OpenCV)

CSC462 Distributed Computing

Sentinel2 multispectral geospatial data mosaicking algorithm for removing clouds and exposing landforms. This initiative won a \$1500 student award.

Quoracle (Python, Tensorflow)

SENG475 Data Mining

An LSTM recurrent neural network model for stock prediction using mixed sentiment and technical data as input.