

 kelvinfilyk@gmail.com

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 @kfilyk

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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
- + 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

- Built greenhouse management application featuring IoT device integration, crop data collection, and AI plant diagnostic tools via a fast, aesthetic web platform
- Lead 3-4 person software team; oversaw direction and progress on company-wide technology goals
- Oversaw development of computer vision diagnostic and analytical tools for assessment of plant health, growth, and stressor factors
- Developed inventories used by engineering and sales teams
- Managed and optimized AWS resources, security, and infrastructure
- Maintained QA infrastructure

Python Developer (Python, PostgreSQL, AWS)

Styx Intelligence | September 2021 - April 2022

- Implemented multiple stages of a data-mining pipeline via AWS Lambda and employing a number of Python libraries (ScraPy, BeautifulSoup, Urllib3, PhantomBuster, Requests)
- Built multi-threaded data scraping tools for fraud detection, identity collection, and domain identification
- Used AWS CloudWatch to extensively log pipeline steps

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

Natural Resources Canada | Apr 2018 - Apr 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 | Apr 2017 - Aug 2017

- Developed extensive CS curriculum for high-school students
- Developed analytical tools for aggregating client and revenue data
- Led colleagues in hands-on teaching of large student groups
- Optimized and deployed company WordPress website

Lead Developer (Django, React, Javascript, PostgreSQL)

UVIC Biomedical Engineering Club | Apr 2019 - Aug 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.