KELVIN FILYK

FULL-STACK SOFTWARE ENGINEER

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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

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.