Dirk Haupt

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EXPERIENCE

Xtract One | Vancouver, Canada

Full Stack Developer II April 2022 - Present

- Led the Hostile Information project - Reused and improved project-agnostic framework previously developed with a team of 2 ML engineers and a frontend developer to deliver a prototype dashboard on time and under-budget.
- Managed Agile (Scrum), code review practices, and CI operations within the project with 100% WFH workflows.

Full Stack Developer April 2021 - April 2022

- Promoted for engineering an indispensable framework that led to successful delivery of Xtract's first product and expanded the division's product portfolio with 3 new AI-powered products - Recce, XT-SHIMS and WISRD.
- Designed and implemented a dockerized React dashboard (frontend) and Django API (backend) providing a customer-facing framework for a first-of-its-kind live-streaming video analytics platform with real-time ML inference (<500ms of latency) codenamed Recce.
- Prevented potential loss of a $5mil contract by demonstrating strong initiative and challenging superiors, ultimately leading to the successful conduct of requirement analysis and a crucial product pivot in conjunction with work with subject matter experts in video streaming, mapping and ML systems.

AppNeta | Vancouver, Canada

Full Stack Developer May 2019 - April 2021

- Led implementation of React-Redux App Quality Dashboards, improving customer Time to Value, contributing 43% of feature release based on Agile Story Point metrics, the highest among developers.
- Implemented new and modified system-critical Java Spring REST API endpoints, resulting in +32,000 requests from 56 business customers within a year and over 80 million yearly requests for modified endpoints.

Freelance | San Francisco, USA April 2019 - April 2019

- Built a network graph data visualization using Ruby on Rails, React and D3.js, saving >$1000.

Washington University School of Medicine in St. Louis | University of British Columbia

Independent Consultant (Data Visualization) September 2017 - August 2018

- Took the initiative to create a R-Shiny app for a decision tree algorithm to aid an international team of 24 researchers in spinal cord injury study, contributing to publications with 10s of citations.

Connor Clark & Lunn | Vancouver, Canada

System Developer, Investment Analytics February 2018 - June 2018

- Led the implementation of an Angular plot.ly financial time series data visualization prototype.
- Received a salary increase within three months for outstanding performance.

TH Murphy Laboratory | University of British Columbia

Research Assistant (Scientific Software Development) May 2015 - September 2017

- Mesoscale Brain Explorer: Designed and developed a desktop Python-Qt application used by 10s of neuroscientists worldwide to ease data pipeline management and large dataset exploratory analyses.

SKILLS

Languages - Python, Typescript, Ruby on Rails, Java EE, SQL, R, Haskell, Prolog, Racket
Tools, Services and Soft Skills - React, Redux, Leaflet, Django, Flask, Node, AWS ECR, Lambda, DynamoDB, IAM, EC2, API Gateway, S3, Docker, Nginx, MongoDB, Redis, Git, PostgreSQL, D3, R-Shiny, Plot.ly, Data Visualization, Spring, Teamcity CI, Public Speaking, Leadership, Sprint/Agile Management

EDUCATION

App Academy - 1000-hour immersive full-stack web development intensive with <3% acceptance rate
University of British Columbia - M.Sc in Neuroscience, B.Sc in Cognitive Systems, Computer Science

PROJECTS

- **Sloth** *(React/Redux, Rails 5, ActionCable/Websockets, AWS S3/ActiveStorage)* - A clone of the popular team collaboration platform known as Slack.
- **PokeGifs** *(JavaScript/Node.js, Canvas)* - Created a unique framework for parsing gifs into spritesheets for use in character animation.
- **EarthQuick** (*Flask, Azure DevOps)* - Built the Azure production environment for an earthquake prediction PoC, earning a top-6 finalist spot in the Microsoft Canada Discover AI Challenge.
- **CircuitSolver** *(Android, OpenCV, Tensorflow)* - A mobile app using OpenCV, Hough lines and DBScan clustering to analyze the voltage, current and resistance of components of hand-drawn circuits.