Kohl Peterson

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💼 Professional Experience

Agile Developer — *May 2021 – Dec 2021 (work term)*

SAP Canada, Vancouver BC

- Implemented high impact **feature enhancements** for chart visualizations such as thresholds and variance as part of a development team of 12.
- Delivered **more than 100 bug fixes** for production features with high customer visibility/impact and flaky integration tests.
- Developed effective **Jasmine and Jest integration tests** over multiple feature areas that caught issues in functionality prior to deployment.

Technical Project Coordinator — *Sep 2020 – Apr 2021 (work term)*

SAP Canada, Vancouver BC

- Working with senior leaders to assist in the **planning** and **coordination** of complex enterprise **software** development projects by **creating BI dashboards** using SAP Analytics Cloud and ad-hoc reporting.
- Coordinated the hiring of 24 Agile Developers and the onboarding experience for ~50 new hires.
- Created and maintained a **Jupyter Notebook** to validate new ETL software was working correctly.

Tax Education Officer — *Jan 2018 – Aug 2018*

Ministry of Finance, Government of Saskatchewan, Regina SK

- **Performed outreach visits** in order to educate businesses on PST and how it applied to their business, as well as ensure the business was operating in accordance with **government auditing standards.**
- Answered **complex PST queries** in accordance with government PST legislation.
- Created an intra-department educational manual to assist in the adoption of a new corporate software system.

Logistics Coordinator — *Aug 2016 – Dec 2017*

Seaboard Special Crops, Regina SK

- Created and maintained a **VBA application** to accurately estimate transportation costs, **finding select routes** that were significantly cheaper **increasing trade profit margin by ~100%.**
- Executed and facilitated the logistics of moving specialty crops through to **overseas end destinations** with considerations to **import/export regulations, cost of freight and product.**
- Communicated with freight forwarders, stuffing facilities, major and short rail lines, brokers and customers to ensure timely and accurate delivery of product to meet contractual obligations.

✏️ Education

B.Sc. – Computer Science and Statistics Major — *est. August 2022*

University of British Columbia, Vancouver BC — *UGPA – 90% (4.33/4.33)*

- Relevant Classes: Intermediate Algorithm Design and Analysis; Machine Learning and Data Mining; Intro to Relational Databases; Computer Hardware and Operating Systems; Internet Computing; Finding Relationships in Data; Time Series and Forecasting.

B.B.A. – Finance Major (distinction) — *April 2017*

University of Regina, Regina SK — *UGPA – 82% (3.80/4.33)*

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⟨/⟩ Languages & Technical Skills

- Languages: C, C++, CSS, HTML, **Java**, **JavaScript**, Julia, **Python**, R, **SQL**, **TypeScript,** and VBA.
- Libraries: Aframe, **AntDesign**, Asyncio, Bcrypt, Chai, Dotenv, **Express**, **Jasmine**, JDBC, **Jest**, **jQuery**, Junit, Keras, **Less, MaterialUI,** Mocha, Mongoose, Multer, **Node**, Nodemailer, **Passport**, PyQT5, **React**, **Redux**, Tailwind CSS, **Tensorflow**, Typegoose, Unittest and **Webpack.**
- Tools: **Chrome Developer Tools**, **Git**, Google Vision, Jupyter Notebook, **Postman**, and R Markdown.
- Skills: Asynchronous programming, REST, Machine Learning (SVMs, Random Forests, Non-linear regression, PCA, Neural Networks, etc.)

🏆 Project Showcase

Wikitreedia* (Personal) 🔗 wikitreedia.com PhotoNotetaker   *Nov 2020 - Now*

Users can create and share their own tree catalogue with photos, geolocation, and tree-specific information.
- Built with: **React**, **Redux**, AntDesign, Less, **TypeScript**, **Node**, **Express**, Typegoose ORM, Mutler, Nodemailer, Passport (JWT authentication), Dotenv, **MongoDB** Atlas, **AWS Amplify**, **AWS EC2** (Elastic Beanstalk), **AWS EFS** and AWS Route53.
- Key Features: JWT Authentication, Forgot Password Token, Multi-file Image Upload to Server, Serverside Disk Storage & Static File Retrieval and Infinite Scrolling Feed with Pagination API*.

SAP Vancouver VR Tour (SAP d-Shop) 🔗 VR Office Tour   *Sep 2020 – Dec 2021*
Developer (4 months), Team Lead & Developer (12 months)

A website that allows visitors to take a virtual tour of the SAP office and interact with SAP infographics.
- Built with: **HTML, AFrame** and **jQuery.**
- I was responsible for movement controls, front-end infrastructure, some 3d modelling, 'Home', 'About Our People' and 'Employee Engagement' scenes, performance bug fixes and some of the 'Virtual Tour' scene

SmartRecycle (SAP Hackathon) Smart-Recycle   *Oct 2020*

Making recycling easier for consumers by leveraging AI to identify what is recyclable and how to sort it.
- Built with: **React**, **Node**, **Express**, Google Vision, **AWS Elastic Beanstalk**, **AWS S3** and AWS Route53.
- I was responsible for the integration of pieces on our server, displaying the results on the front-end and reverse-engineered the API call from RecycleBC's website to retrieve the recycle depot information.

OCR-Live (Personal) OCR-Live   *Jan 2020*

Draw numbers on a canvas and have a convolution neural network predict the result in real time.
- Built with: **Python, Tensorflow** and **PyQT5.**
- I was responsible for training the CNN on the provided MNIST dataset, creating the canvas and UI, converting the canvas image data into data used by the model by average pooling.

*Currently in Development

★ Academic Awards

- Trek Excellence Scholarship for Continuing Students (top 5%, 2019, $1500)
- J Fred Muir Memorial Scholarship in Science (2019, $350)
- Gabriel L Allard Memorial Bursary in Computer Science (2019, $450)
- Academic Silver Scholarship (2015, $500)