

Shervan Gheidi

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EDUCATION

- **B.S. in Mathematics and Computing Science** Sept. 2016 – present
Simon Fraser University, BC, Canada

SKILLS

- **Languages:** C, C++, Go, Java, Python, C#, SQL, PHP, JavaScript, HTML5, CSS3, SASS
- **Web Frameworks & Technologies:** React.js, Material-UI, Electron.js
- **Software & Libraries:** TensorFlow, pandas, boto3, Sci-kit Learn, OpenCV (C++, Python), OpenMP, OpenGL, SQL Server, MySQL, MongoDB, Unity3D
- **Operating Systems:** Windows, Linux (Ubuntu)
- **Tools:** Git, Docker, Bash, PowerShell, AWS (Lambda, S3, API Gateway, Redshift, DynamoDB, CloudFormation, SAM, SageMaker, SES)
- **Process:** Agile, Scrum

EXPERIENCE

Software Engineer Jan. 2021 – Apr. 2021
Covalent - Vancouver, Canada

- Collaborated on a large Java codebase and implemented several core features for the Covalent REST API server.
- Built features for the Covalent API (MongoDB-like) query language, which clients could use for filtering and aggregating blockchain data (various operators, datetime comparison, regex, projections).
- Wrote unit tests and followed test-driven development (TDD) model.

Software Developer Co-op Jan. 2020 – Dec. 2020
TC Energy - Calgary, Canada

- Wrote several ETL scripts in Python (pandas) that queried, cleaned, and manipulated data from various sources (SQL Server, Redshift, S3) with data sizes up to > 1 million rows. This data was used to train machine learning models for future projects.
- Collaborated on an internal application which automated the manual data extraction and prediction processes (i.e., forecasting gas prices for the day) used at TC Energy. Used several AWS services such as Lambda, Redshift, CloudFormation, SageMaker and S3 to help build the cloud infrastructure required for the project.
- Implemented a numerical optimization algorithm which automated the manual efforts of a team of pipeline engineers. The production Python code is still used by engineers at TC Energy.

Full-Stack Developer Intern Jan. 2019 – Aug. 2019
Canadian National Research Council (CNRC) - Vancouver, Canada

- Developed a collaborative web application that allows scientists to upload data obtained by research and experiments. Used JavaScript, PHP, and MySQL for several core features such as user authentication, landing page, dashboard, data upload, real-time statistics, and a data management system.
- Wrote scripts that automated the data extraction of PDF documents by using Python libraries such as PDFMiner and PyPDF.