

Albert Ong

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Technical Skills

Languages: Python, Java, C/C++, JavaScript, TypeScript, HTML/CSS, R, SQL

Frameworks: Gatsby, React, Node, Express, AWS, GraphQL

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow

Developer Tools: Git, Jenkins, Docker, Jira

Scripting: Bash, Powershell

Experience

Software Engineer Intern (Back-End)

Jan 2022 – Present

Capital One

- Building a PDF Validator System for files stored in S3 buckets using Airflow and PySpark

Software Engineer Intern

May 2021 – Aug 2021

Capital One

- Developed a Gatsby JS source plugin to integrate in-house CMS onto the WWW single page application
- Plugin automatically sources and syncs data from the CMS into the application using GraphQL during build-time
- Fluently streamlined the current process of real-time content updates for authors and engineers

Front-End Developer Intern

Sep 2020 – Dec 2020

Purolator Inc.

- Engineered the homepage website, reduced application latency and developed landing pages using the Drupal CMS
- Created REST APIs responsible for routing 80% of all application traffic and assisted team with optimization within Google Analytics
- Accurately performed data analysis for attribution modeling from client data

Software Engineer Intern

May 2020 – Jun 2020

Kubelt

- Implemented propensity models to deliver highly scalable and accurate predictions for financial services using Pandas and Scikit-Learn
- Performed statistical modelling for PZI probabilistic regression of orthogonal factors (PROOF) using R

Front-End Developer Intern

Jan 2020 – Apr 2020

Veriday Inc.

- Built high-performing full-stack applications using the MERN stack
- Contributed in all phases of the development lifecycle, resulting in increased usability and reduced runtime performance by 70%

Projects

MovieConnect | React, Flask, Python

- Developed a full-stack web application that provides social media highlights for 200+ yet to be released movies using React and Flask
- Gathered sentiment analysis data using vaderSentiment and pulled the top 2 popular tweets from the Twitter API for overall movie evaluation

DLNN Algo | Python, TensorFlow, Keras

- Implemented an image recognition software that recognizes cats using a deep neural network with 85% accuracy
- Incorporated an L-layer deep neural network which utilizes He Initialization, RMSprop and an N-dimensional gradient check

Education

University of Waterloo

Sep 2018 – Aug 2023

Honours Mathematics, Major in Statistics, Joint in Combinatorics and Optimization

- Relevant Courses: Data Structures and Algorithms, Forecasting, Computational Statistics and Data Analysis
- Dean's Honours List