Sameer Grewal

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EDUCATION

University of Victoria   Victoria, BC, Canada
BSc. Computer Science   *January 2015 – May 2021*

EXPERIENCE

Software Engineer II   March 2023 – March 2024
Varsity Tutors   *Remote*
- Upgraded global tutor onboarding with Ruby on Rails and React/Typescript, automating tax compliance and expanding tutor pool, increasing annual revenue by ~$900,000.
- Led development of in-house DORA(DevOps Research & Assessment) metrics using Python and the New Relic & GitHub APIs. Established data collection pipeline for reporting that improved repository performance
- Enhanced Ruby on Rails application by improving tutor matching algorithms and by optimizing heavily used endpoint, resulting in a 40% reduction in latency.
- Developed front-end features for schools by creating student management systems and data dashboards with React, Typescript and Next.js. Implemented UI features from Figma into React in the live learning platform that improved UX for tutor preparedness and session satisfaction ratings by 21%.
- Implemented Kafka integration in Ruby on Rails for event production and in Golang for consumption, enhancing tutor management system's scalability and reliability.

Software Engineer I   July 2021 – February 2023
Varsity Tutors   *Remote*
- Improved development processes by migrating CI/CD pipelines to GitHub Actions, cutting down deployment times by up to 70% and enabling scalable cloud infrastructure interactions, boosting dev efficiency and system reliability.
- Developed features for scheduling SMS messages and campaigns using React, Python and AWS (DynamoDB, S3, Lambda, Step Functions) to manage, send and track SMS activity improving marketing campaigns performance
- Upgraded communication services by enabling sales reps to use a limited access SMS feature in the browser with Ruby on Rails. Contributing to a yearly savings of an estimated $3-4 million.
- Increased sales conversion rates by 18% by developing new calling assistant for sales reps with React/TypeScript.
- Operationalized forecasting models into APIs with Python, Jupyter Notebooks, and AWS (Lambda, API Gateway, SageMaker, RDS, S3, SQS) in collaboration with Data Science team.

Software Engineer Intern   January 2021 – March 2021
TradableBits   *Vancouver, BC, Canada*
- Created configurable advertising campaigns with gamification and customizable email flows using: HTML5, CSS3, JQuery, Flask(python) and Postgres (e.g. https://bit.ly/3353EQ5).
- Added new ads analytics features and dashboards to help evaluate CRM data from main products.

Software Development Intern   May 2020 – August 2020
Benevity   *Remote*
- Created recommender system (neural network embeddings) with an Amazon Sagemaker API (python, MXnet, EC2, S3 buckets, API Gateway on Lambda) and a Vue.js front end. Validated proof of concept for new service.
- Diagnosed server crash in post mortem and lead the implementation of the incident resolution. Added API validation wrappers in Postman with Javascript, reducing likelihood of server crashes.

Software Engineer Intern   January 2019 – August 2019
Change.org   *Victoria, BC, Canada*
- Added various UI components in React and Rendr/Backbone. Tested with Enzyme, Jest, React Testing Library & Mocha. Used daily for user success team's operations.
- Created reusable API endpoints and modules with Ruby on Rails to support new features. Tested with Rspec. Upgraded backend services to enhance user management.
- Enhanced Java-based NLP spam detection pipeline on AWS Lambda, incorporating multi-language tokenizers and boosting accuracy by 13%.

TECHNICAL SKILLS

Adept: Python, Flask, Ruby/Rails, Golang, Javascript, Typescript, Node, React, Next, mySQL, Postgres, Docker, AWS
Proficient: C, Vue, Java, Elixir, Kubernetes, GraphQL