

OVERVIEW A Software Engineer with 5 years of experience in **backend development** and **machine learning**, with a history of designing and implementing novel solutions to difficult problems.

PROFESSIONAL EXPERIENCE **SDE-II (Data Platforms)** at BrightMoney (September 2021 - Present)

Built large scale maintainable system (for both real-time and offline use cases). More specifically:

- Worked on financial data aggregation system which is composed of 18 different microservices.
- Built a highly performant realtime underwriting (UW) service with p99 latency as 30s. It fetches data from various financial aggregators, credit-report, and several derived features to predict risk profile of a user and give credit.
- Optimized batch refresh jobs, made it horizontally scalable, reduced job time by almost 150%, improved account recency by 30%.
- During this period, our services supported growth in total users from 30K+ to 240K+, increase in daily enrolled users from 400+ to 2500+ and reduced CPFC (cost for first charge) from \$90 to \$22.

Machine Learning Engineer at KiwiTech (September 2018 - September 2021)

Designed and implemented novel solutions to tasks related to computer vision, NLP and backend:

- Built the entire ML backend for a realtime action recognition app (having 94% video-level and 91% clip-level accuracy) along with the video annotation data pipeline for basketball games. Implemented various filters (effects) that can be applied to different objects in the video, using object segmentation and tracking.
- Built a web-crawler service to scrape thousands of websites, periodically (used TOR client to generate new IP addresses, to avoid blocking), and use those data to create a knowledge graph.
- Built a web service to periodically fetch GitHub data & generate different visualizations (for monitoring purposes) of each repo (PR reviews, commits, committer, authors, etc.)

Machine Learning Engineer at Phonon.io (June 2017 - September 2018)

Implemented various backend services and built NLP pipeline from scratch. More specifically:

- Built NLP pipeline (for tasks related to Intent Classification and Named Entity Recognition).
- Built the underlying predictive model for IVR system.

EDUCATION **Jaypee University of Engineering & Technology** (August 2013 - May 2017)

Bachelor of Technology in **Computer Science**

LANGUAGES AND TOOLS Python, SQL, Javascript, Unix shell scripting
PostgreSQL, Neo4j, MongoDB, Redis
Django, PySpark, Airflow, Pytorch, Scikit-learn, Flask
Celery, RabbitMQ, AWS, Docker, ELK stack, Grafana, Prometheus, Pandas, Numpy, Spacy, D3.js