Rock Zhou

rockzhou15@gmail.com ✳ rockzhou.com

SKILLS

- **Languages:** Javascript/Typescript, Python, C++, SQL
- **Tools/Frameworks:** React, Node, GraphQL, Flask, Docker, AWS, Terraform

EDUCATION

University of Waterloo ✳ Bachelor's of Computer Science, 3.6 GPA

EXPERIENCE

January ✳ Software Engineer   *Mar 2023 – Present*

- Increased payment conversion rates by 30% and improved durability of payments service by integrating with a third-party provider to enable users to pay with direct bank transfers and mobile wallets.
- Led a project integrating Flask and AWS EventBridge Scheduler for scheduling user outreach, automating over 10,000 daily email sends and reducing legal-compliance issues by 15%.
- Championed the resolution of longstanding conflicts in a critical NPM package configuration to unblock package upgrades across the React codebase, saving 20 hours monthly and enabling greater security.
- Launched a survey system with UserSnap, collecting 10,000 responses in 6 months, guiding key product decisions and improving customer engagement.

Meta ✳ Software Engineer   *Sep – Nov 2022*

- Streamlined internal privacy review process by creating functionality in PHP, React, and GraphQL to allow privacy managers to update linked privacy tasks directly.
- Refined internal meeting workflows for >80000 employees by implementing screen-share pausing functionality in Messenger Video Calls using React Native and C++, which was released internally.

Tesla ✳ Software Engineer Intern   *May – Aug 2021*

- Bolstered efficiency of part inspection and production line error analysis for engineers and technicians by over 50% by developing an all-in-one internal platform in React and GraphQL.
- Improved specificity of security across internal apps by implementing keyword and role based permissions using Node and AWS Lambda.

StackAdapt ✳ Software Engineer Intern   *Jan – Apr 2021*

- Expanded potential client access to more than 150 million users on Spotify and SoundCloud by building out targeted audio ad campaign functionality in Ruby on Rails and React.
- Created a master demo account environment to enhance sales team workflows and improve customer acquisition success, helping to achieve 1000 active ad campaigns.

KitchenMate ✳ Software Engineer Intern   *May – Aug 2020*
                                                                           Sep – Dec 2019

- Increased projected revenue by 30% by expanding customer base to hospitals, through scoping out and building a full-fledged concierge app experience with AngularJS.
- Boosted weekly average users by 5% by implementing a C2C2B referral program end-to-end.

PROJECTS

EEG Seizure Classification ✳ github.com/rocky1638/eeg-seizure-detection   *May 2020*

- Classified seizures through EEG frequency data, using transfer learning with ResNet18 to achieve classification accuracy of 70%, placing 4th among participants in the Neureka 2020 challenge.
- Preprocessed data using NumPy and PyTorch, using short-term Fourier transform (STFT) to extract frequencies and amplitudes, creating frequency/time heat-map for CNN input.