KIRON DEB

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EDUCATION

Johns Hopkins University *Expected Dec 2024*
B.S. Computer Science; GPA: 3.95/4.00

Skills

Languages: JavaScript/TypeScript, Java, Python, SQL, C/C++ HTML/CSS, Bash
Libraries: Vue, TypeORM, Jest, React, Redux, Express, Node.js, Cypress, Spring Boot, Cron
Tools: Git, Docker, Kubernetes, CircleCI, Amazon CloudWatch, Amazon API Gateway, Gradle

Experience

DevOps Developer Intern *May 2023 – Aug 2023 (3 months, Full-time)*
IBM *New York City, NY*
- Saved 70 hours of manual work per year by automating the fetching of warranty information from Apple for 160,000+ MacBooks managed by IBM
- Built a dockerized Java API which hits two third-party APIs to fetch data from Apple and populate it in Jamf
- Wrote shell scripts and a Cron Job to start the workflow daily, ensuring new MacBooks have warranty info populated
- Live-streamed the app's logs to a file and set up log rotation to avoid memory overflow
  Skills: Java, Spring Boot, Docker, Docker Compose, Junit, Gradle, Bash, Cron, logrotate, awk

Software Engineering Co-Op *Jan 2023 – May 2023 (4 months, Full-time)*
Vontive *San Francisco, CA*
- Integrated an API to replace outsourced loan servicing with in-house servicing, accelerating a Q4 initiative by 5 months; wrote end-to-end and isolated tests to test the API and internal controllers independently
- Owned 4 Jira epics to support the underwriting of new categories of loans (bank statement, vacation rental)
- Automated Slack messages to ping relevant internal employees with select information from the database, reducing human time needed from 100 seconds to 1 second
- Aggregated fields using SQL aggregate functions and JOINs to summarize data from multiple rows
- Automated the manual process of locking tables and adding log statements in autogenerated TypeORM migrations
- #1 code contributor on the backend and #2 contributor on the frontend over my Co-Op in a team of 11 engineers
  Skills: TypeScript, Vue, TypeORM, PostgreSQL, Jest, Vuex, AWS CloudWatch, AWS API Gateway, CircleCI, Bash

Software Engineering Intern *May 2022 – Aug 2022 (3 months, Full-time)*
BlackBoiler *Remote*
- Built a dashboard which helped the internal legal team interpret edits made by BlackBoiler's ML model
- Revamped web pages to have a better UX – received positive feedback from clients upon release
- Added error logging to client websites by storing the source-mapped call stack of the error in MongoDB
  Skills: JavaScript, React, Node, Express, MongoDB, Elasticsearch, AWS, Cypress, Docker, Kubernetes

Database Intern *Oct 2021 – Feb 2022 (4 months, Part-time)*
Makeithappen *Remote*
- Wrote SQL queries to retrieve/update data from a Postgres database according to business clients' needs
  Skills: SQL, PostgreSQL, DBeaver

Undergraduate Researcher *Jun 2021 – Nov 2022 (17 months, Part-time)*
Johns Hopkins University *Baltimore, MD*
- Authored a paper under professor Kevin Duh which got accepted to conference BlackboxNLP
- Interpreted how Transformer hyperparameters affect model accuracy using the Explainable Boosting Machine
  Skills: Python, Google Colab, InterpretML, scikit-learn, Matplotlib, LaTeX

Teaching Assistant, Data Structures *Aug 2022 – Present (12 months, Part-time)*
Johns Hopkins University *Baltimore, MD*
- Hosted weekly office hours to help students debug homework assignments and answer data structures questions
- Graded coding projects and exams by checking for correctness and code quality
- Cleaned and labelled QnA data from our online discussion forum to feed into a TA chatbot built on top of GPT-3.5
  Skills: Java, Teaching, ChatGPT