Iskander Dauletov

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SKILLS

Languages: Python, C/C++, C#, JavaScript, TypeScript, Java, Rust, HTML/CSS, SQL, Bash
Technologies: Git, Node.js, .NET, Vue, React, Express, Django, GPT, Redis, AWS, Docker, MongoDB, Firebase, PostgreSQL, DynamoDB, AWS SQS, Tailwind, Jest, SKLearn, Selenium, NumPy, Pandas, Postman, GraphQL
Concepts: Relational Databases, Unit Testing, Full-Stack, Backend, Frontend, ETL

EXPERIENCE

Software Engineer — San Francisco, CA
DraftAid (YC W24) — *May 2025 – Present*
- Implemented algorithms in C# for rendering 2D drawngs of 3D objects for **1M+** CAD parts to speed up drawing generation latency from **1 hour** to **30 seconds** for CAD software like Autodesk Inventor and Solidworks
- Built a scalable service to cache 2D representations of CAD models to train an AI drawing engine to improve feature and part recognition
- Developed algorithms to measure similarity between drawings using point clouds and a dynamic graph convolutional neural network model
- Developed a CI/CD pipeline to automate E2E testing of 2D drawing generation using **GitHub Actions** and **AWS Lambda** to save **4** hours of engineering time daily

Backend Developer — Waterloo, ON
Descartes Systems Group — *September 2024 – December 2024*
- Optimized search functionality in **C#** enabling users to refine query results with granular criteria on **1K+** pages
- Implemented logistic agents using MVC architecture to ensure consistency between **200+** buyers and suppliers
- Built a pipeline to send daily emails for **110+** users to receive real-time updates and insights

Full Stack Engineer — Toronto, ON
Feroot Security (YC W21) — *January 2024 – April 2024*
- Engineered centralized configuration manager module for registration, authentication, and token reconfiguration to communicate with a scanner that assesses privacy and security compliance (PCI-DSS 4.0, HIPAA, CCPA, SOC 2)
- Ideated and built a ChatGPT-powered search bar to query over **250** insurance and security services to enhance service recommendations and personalization
- Built a UI for dashboards with security against XSS and CSRF attacks to visualize threat intelligence on **1K+** pages

Software Engineer — Waterloo, ON
Manulife — *May 2023 – August 2023*
- Built a pipeline to automate transfer of **250GB+** from SFTP server to S3 and from S3 to Google Drive using **rclone** and **AWS EC2** speeding up the process from **70 hours** to **5 hours**
- Optimized core user workflows by reducing page load time by **35%** using code-splitting and lazy loading
- Developed **50+** automated test suites using Jest, achieving **100%** code coverage to enhance quality assurance

Research Software Developer — Toronto, ON
Smartnet — *June 2022 – August 2022*
- Developed a graph algorithm in Python for solving **NP-Hard** problems to find shortest delivery paths
- Integrated address validation for **100s** of addresses to render them on Google Maps using **Django**

EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Computer Science — *2022 – Present*

PROJECTS

Research Adapter | *Python, FastAPI, JavaScript*
- Engineered an AI-powered browser extension leveraging NLP to auto-generate structured, math-aware summaries of research papers

BoardAtWork | *Python, C++, Arduino*
- Built a whiteboard plotter with image processing using Arduino, servo motor, stepper motors, and timing belts