Ceres Lang

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Education

University of Toronto — Toronto, ON
Honours Bachelor of Science in Computer Science — *Sep. 2017 – May. 2022*

Technical Skills

Technologies: JavaScript, TypeScript, Java, Python, C, Go, SQL (Postgres), NoSQL (MongoDB), HTML/CSS
Frameworks: Django, Springboot, Express, Django ORM, Sequelize
Libraries: React, Node.js, Mongoose, Styled Components, Material UI/MUI, Pandas, Zod, SciPy, Numpy

Experience

Software Developer — May. 2022 – Jan. 2023
Clutch Technologies — *Toronto, ON*

- Engineered end-to-end solutions by developing RESTful APIs in Node.js and React-based single-page applications, processing data into a PostgreSQL database, and orchestrating communication with third-party APIs—all aligned with designs provided by the product team
- Refactored and improved user interfaces including introducing new styling, MUI components, improved navigation flow, and enhanced site consistency, improving site traffic by 50%
- Took ownership of the pre-approval project, deconstructing product descriptions into efficient database schemas, API layouts, and other technical specifications, facilitating an agile development approach
- Collaborated with product and business teams throughout pre-approval project development, providing technical expertise for evolving requirements to align design and functionality with project goals
- Integrated third-party Axis Auto Financing finance application API into Clutch financing flow, optimizing the pre-approval process and contributing to a 30% increase in financing profits
- Managed bug reports for client and server applications with live Datadog monitoring, and pushed out fixes to minimize user disruptions
- Prototyped printer server to print RFID labels leveraging AWS Kinesis stream and S3 for automated updates, reducing the time required to onboard vehicles by 25%

Full-stack Developer — Sept. 2021 – Apr. 2022
Korotu Technology — *Toronto, ON*

- Facilitated development planning meetings with company CEO, presenting detailed technical findings related to project specifications, including conducting conceptual research on remote sensing technology and designing an optimized database schema
- Built LiDAR prototype in Python using NASA GEDI platform, used to place as finalist in WWF Nature X Carbon Tech Challenge for $\$25,000$ in grant funding
- Rebuilt backend application architecture from microservice to monolithic to suit changing company direction, reducing work needed to implement new features by 75%

Backend Developer — Jan. 2021 – Apr. 2021
Korotu Technology — *Toronto, ON*

- Developed RESTful API in Python using Django and SQL to retrieve and manipulate remote sensing data
- Built application with machine learning to interpret spectral reflectance, used to secure contracts to gain funding leading to the startup becoming incorporated
- Created and managed AWS cloud instance to host application, keeping operational costs for development near $\$0$
- Designed database schema to facilitate project needs, implemented using Django ORM on SQL database