Sam Sullivan

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Experience

Cardog   **Toronto, ON**
Founding Engineer   *Sept '23 - Present*
- Founded and scaled Cardog, an automotive marketplace, to 20k monthly active users processing 400k vehicle listings daily
- Built and deployed Corgi, the world's fastest VIN decoder, handling millions of VIN lookups with sub-millisecond response times
- Engineered complete technical stack: web platform, mobile app, data pipelines, and real-time search infrastructure serving automotive data at scale
- Developed sophisticated web scrapers and data ingestion systems processing 100GB+ daily across multiple automotive markets
- Achieved efficient user acquisition through multi-channel growth strategies with minimal ad spend, optimizing conversion funnels and attribution models
- Led end-to-end product development: frontend/backend architecture, mobile development, DevOps, and growth optimization

Hyundai Automotive   **Toronto, Ontario**
IT Consultant   *May '20 - Present*
- Consulted with multiple Hyundai dealerships across Ontario to deploy and integrate digital and physical infrastructure, including networking, servers, security systems, and cameras
- Managed end-to-end hardware installations and maintenance, ensuring seamless deployment of cameras, door security, and networking systems across all dealerships
- Led troubleshooting and debugging efforts for various dealership systems, ensuring rapid resolution and long-term reliability for daily operations

Projects

Corgi VIN Decoder   **GitHub**
Open Source   *2025*
- Built world's fastest VIN decoder processing millions of lookups with sub-millisecond response times
- Open-sourced core algorithms and optimization techniques for automotive data processing
- Handles complex VIN validation, manufacturer data extraction, and real-time vehicle specification lookups

Canadian Chinchilla Rescue   **Toronto, ON**
Volunteer   *2022 - Present*
- Developed and implemented a modern, automated rescue application portal, streamlining the adoption process and enhancing user experience
- Coordinated donation campaigns and organized trade show booths, significantly boosting recognition, awareness, and fundraising efforts
- Provided flexible, on-demand technical support contributing to operational efficiency and event success

Education

University of Toronto   **Toronto, ON**
Bachelor of Science (Neuroscience & AI)   *2023 - 2025*
- Studied computer science and neuroscience with focus on AI applications

Skills

Programming: Javascript, Typescript, Python, C, SQL, Terraform, React, Node.js
Infrastructure: AWS, Data Pipelines, Real-time Systems, Mobile Development
Mechanical: Helicopter Piloting, Networking Deployments