



Cameron Slupeiks

Senior software engineer with 5+ years of experience developing cloud, desktop, & mobile solutions.

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Experience

Senior Software Engineer @ Brash Inc.

Apr 2020 - Present

Velavu

- Developed a high-performance asset tracking dashboard using React and Mapbox, featuring reusable UI components and real-time GPS visualization
- Architected a horizontally scalable serverless backend with AWS Lambda, API Gateway, DynamoDB, SQS, & SNS to support live location updates, historical data, and real-time alerts
- Designed and implemented a CI/CD pipeline with GitHub Actions to automate testing, staging, and deployments
- Contributed to the product's recognition with a **CES Innovation Award** in 2022

Otis Dental

- Built a React Native app to securely capture & store ePHI from BLE sensors, maintaining HIPAA compliance
- Implemented 2FA & fine-grained system access control to secure ePHI
- Conducted market research & compliance learning to meet healthcare regulatory requirements

Numbered

- Designed an AWS DynamoDB single-table schema with composite keys to reduce read & storage costs
- Used AWS SQS & Lambda for event-driven processing to speed up data handling by ~25%
- Implemented real-time search indexing with AWS DynamoDB Streams & OpenSearch to improve query relevance & responsiveness

iCAD Dental

- Developed a dental school training simulator using Electron, React, & Three.js
- Utilized Python, Open3D, & multi-threading to optimize precision cut accuracy computations by ~35%
- Developed interprocess communication for real-time hardware feedback via native system APIs

KenWave Solutions

- Developed a desktop app with Electron to handle data collection in leak detection services
- Engineered a socket service for communication between hardware, app, & cell towers
- Created a React dashboard for customers to manage sites & access project analytics

Aegys

- Engineered a full-stack IoT solution to monitor MRI room door activity in hospitals, delivering real-time alerts
- Developed a serverless backend using AWS Lambda, IoT Core, Cognito, Aurora, SNS, & SQS
- Implemented user and site management with role-based access control and scalable infrastructure

Software Development Intern @ Nokia

May 2019 - Aug 2019

- Developed a Kafka data pipeline to process real-time messages from over 5000 optical network nodes
- Collaborated on the implementation of a rapid emergency backup & restoration system, enabling 5G network providers to swiftly recover systems following service outages

Education

Bachelor of Computer Science @ Carleton University

Sept 2017 - Apr 2021

GPA: 3.5/4.0 | **Hackathons:** 1st place @ cuHacking 2019, 2nd place @ RU Hacks 2019

Tools

Languages: TypeScript • Python • GraphQL • SQL

Frontend Tools: React • React Native • Redux • Apollo • Electron • Mapbox

Backend Tools: Node.js • PostgreSQL • Docker • GitHub • Jenkins • Apache Kafka

Cloud & Infrastructure: Lambda • DynamoDB • RDS • S3 • API Gateway • AppSync • SAM • CloudFormation
EC2 • ECR • CloudWatch • CloudTrail • IAM • Cognito • SNS • SQS • Kinesis • OpenSearch • IoT Core