


## Experience

- **Systems Software Developer** **FutureVault Inc.** **Aug 2020 — Present**
  - Automated upload and processing of **100,000 monthly documents** by leading a SFTP-based, serverless distributed batch file upload system using Java 11, Spring Boot, Kubernetes, AWS (S3, Lambda, SQS), MongoDB
  - Automated email ingestion processing with Node.js on AWS Lambda for 50,000 monthly ingress emails, using KMS for encryption, and jsdom for parsing HTML-based email templates
  - Developed a suite of serverless, batch self-healing processes with Node.js on AWS Lambda, invoked daily by EventBridge to scan, identify, and heal erroneous/missing database records
  - Automated tenant-specific subdomain creation for corporate clients using a full-stack solution that integrated with AWS (Route 53, CloudFront, SNS, SES, SSM) which **increased sales & support productivity by 100x** (from days to minutes)
  - Used Elasticsearch to improve in-app full-text document content search response time by 1000x, from minutes to 50ms
- **Software Development Consultant** **PENDA Productions** **Feb 2020 — Sep 2021**
  - Designed and implemented **100% serverless system** with Node.js/TypeScript on AWS to upload, compress, store 1.5TB raw video/image files: Cognito, Lambda, API Gateway, DynamoDB, OpenSearch, CloudFront, IaC - CloudFormation
  - Front-end in TypeScript with React-Redux
  - Payments with **Stripe**, Stripe Checkout; webhooks integration with AWS API Gateway
- **Software Development Intern** **FutureVault Inc.** **May 2018 — Sep 2019**
  - Redesign and reimplementation of core document processing model, migrating from Spring Boot monolith to Node.js serverless model on AWS, with Lambda, Step Functions, S3, DynamoDB
  - Migrated platform's user authentication flow to Amazon Cognito, enabling **SAML and OAuth SSO** integrations using Node.js and serverless
- **Software Development Intern** **Royal Bank of Canada** **May 2017 — Sep 2017**
  - Fullstack microservices development on IBM Cloud using Angular, Spring Boot; SQL DB performance tuning

## Education

 **University of Toronto**  
Bachelor of Applied Science (B.A.Sc, Computer Engineering)

## Skills

Languages	Java • TypeScript • Node.js • JavaScript/HTML/CSS • Python • C/C++ • SQL • Bash
Frameworks and Libraries	React.js • GatsbyJS • Express.js • Spring • Hibernate
Tools	Amazon Web Services (AWS) • Elasticsearch • Docker • Kubernetes • Stripe (Software) • MongoDB • Git • Maven