

Jana Rajakumar

Software Architect - <https://jana19.dev>

Toronto, Canada

(647) 567-4677

jana19.dev@gmail.com

EXPERIENCE

University of Toronto – Application Programmer Analyst

NOV 2016 - PRESENT

I am actively involved in developing and maintaining a diverse range of applications for the Library. This includes supporting high-demand applications that cater to user needs., migrating existing systems, implementing GitLab CI processes, and using systems like Chef and Docker orchestration. This involves collaborating on the enhancement and sustainability of widely used systems, showcasing my commitment to the user experience.

Codepiercer – Founder Freelancer

MAY 2014 - PRESENT

As a freelancer, I specialize in crafting dynamic web solutions, ranging from static websites to high-demand web applications with real-time features and robust admin interfaces. I excel in content management systems, deploy projects using both cloud hosting and self-hosted servers with Docker Swarm, and have expertise in working with databases and serverless architecture to ensure optimal performance and scalability.

HiTech Bay – Online Sales Technician

MAY 2014 - FEB 2015

I played a pivotal role in conducting and optimizing online sales on major e-commerce platforms such as Amazon and eBay. Beyond managing sales and shipping logistics, I excelled in debugging, upgrading, and repairing a spectrum of computer systems, spanning desktops to laptops.

EDUCATION

University of Toronto – Honours Bachelor of Science

SEP 2011 - JUL 2016

This program provided me with a strong foundation in understanding and optimizing computer architectures, as well as honing my skills in developing efficient algorithms for various applications.

SKILLS

Software Architecture
Full-Stack Web Development
Programming Languages
Database Management
DevOps
Testing and Debugging
Performance Optimization
Accessibility
User Experience
Code Review
Documentation
Continuous Learning

PROGRAMMING LANGUAGES

Javascript + Typescript
Python
PHP
Rust
Golang

DATABASES

SQL & NoSQL
GraphDB
Redis
Firebase
S3 Object Storage

ACTIVE PROJECTS

Entryscanner – University of Toronto

This web application is designed for use by security staff in different libraries to manage and verify patron access. It also features an API that collaborates with entryscanner-access-gates, facilitating barcode lookups to determine and grant authorized patron entry access.

Built with SvelteKit, utilizes LDAP for secure authentication, MariaDB for efficient data management, and RabbitMQ for real-time event handling.

PennyWise – Personal Project

Personal finance tracker and budgeting app designed to help with money management. This application helps users to efficiently track and manage expenses, create budgets, and integrate bank accounts and other assets with features like payee management, category customization, and comprehensive reports.

Built with SvelteKit, CockroachDB for data management, Tailwind CSS for a responsive design and hosted on Vercel.

Tvupweb – Freelance

Designed a robust admin portal supporting multiple user roles with OTP login for enhanced security. Integrated emailing, SMS with Twilio, real-time user tracking, and PDF report generation. Developed a GraphQL API for data retrieval and a responsive Svelte frontend for interaction.

Utilized PostgreSQL for data storage, deployed on Digital Ocean using Docker Swarm. Implemented GitHub Actions for streamlined CI/CD.

Codenames – Personal Project

Implementation of the popular board game Codenames - finding detectives (i.e., words) from a set related to a hint given by the spymaster. Built using ReactJS with Firebase as the backend for real-time database and hosted on Netlify.

MyMedia – University of Toronto

A specialized archival storage and streaming solution for the University of Toronto. This platform enables users to effortlessly upload and share videos in various formats, record screens via a web API, and enjoy a custom video player.

DEV TOOLKIT

VS Code

Github/Gitlab

Docker

Vercel

Digital Ocean

PlanetScale

Cockroach Labs

MongoDB Atlas

Rabbit MQ

Prisma

TailwindCSS

Azure

Firebase

INTERESTS

All Things Web

SyntaxFM podcast

DIY Projects

Learn more about my projects and expertise from <https://jana19.dev>