



Pat McGowan
Full-stack Engineer

Work Experience

Isarbits GmbH | September 2018 - March 2020

Full-stack Engineer

Isarbits is a Munich-based software solutions company providing tech solutions for startups to enterprise partners. Responsible for managing and contributing to multiple projects from start to finish.

- Oversaw all aspects of design-and-build applications from end-to-end with the latest technologies available.
- Integrated aspects of optical character recognition (OCR), image processing, and custom algorithms.
- Developed CI / CD pipelines and DevOps deployments.
- Created scalable, performant, and secure microservice backends.
- Designed and constructed clean client-facing applications for web and mobile platforms.

AWS STACK DOCKER NESTJS ELASTICSEARCH OCR / TEXT EXTRACTION

POSTGRESQL PYTHON REACT

Aranshop Technologies | September 2017 - November 2018

Full-stack Engineer

Aranshop Technologies is a Vancouver-based Augmented Reality web and mobile development company. Built an augmented reality shopping app which enables users to try rugs at home without having to physically move the products and furniture.

- Built a responsive, VueJS hybrid web-app for iOS, Android, and desktop.
- Built a NodeJS REST API for dynamic product content, image processing, and recommender system.
- Responsible for managing deployments and DevOps / infrastructure.

APACHE CORDOVA DOCKER MONGODB NODEJS TYPESCRIPT VUEJS

Hockey Community | August 2015 - December 2016

Front-end Engineer

Hockey Community provides leagues and hockey players with a website and mobile app to manage scheduling games, record player stats, find pick-up games, arenas, and stores nearby, buy and sell gear, and more.

Rebuilt the existing hybrid web-app from scratch with newer web technologies, focusing on scalability.

- Responsive, hybrid Angular web-app deployed on any device.
- Ruby on rails back-end provides scalable, robust, and secure data storage and retrieval.
- AngularJS front-end using Google's material design spec for clean and user-friendly interface.

ANGULARJS (1&2) NODEJS RUBY ON RAILS SQL TYPESCRIPT

Primary Open Source Contributions

HospitalRun | September 2017 - December 2017

Open source, modern software for charitable hospitals in the developing world.

Built an extensible NodeJS REST API which allows third party apps to communicate securely and efficiently with the software using the Fast Healthcare Interoperability Resources (HL7 FHIR) spec standard framework.

- Built the Node server and data conversion utilities from scratch.
- Security-first approach to sensitive data.

COUCHDB NODEJS RAML

MCServer | August 2015 - December 2016

A performant C++ Minecraft Server

Resolved 4 open issues, augmenting existing components and building some from scratch.

C / C++11

Personal Info

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 p-mcgowan
 patamcgowan

Skills

Javascript ██████████
 Typescript ██████████
 NodeJS ██████████
 NestJS ██████████
 Express ██████████
 HTML / CSS ██████████
 Sass ██████████
 Shell (Bash) ██████████
 Angular ██████████
 Docker ██████████
 React ██████████
 PostgreSQL ██████████
 GraphQL ██████████
 Elasticsearch ██████████
 RabbitMQ ██████████
 Vue ██████████
 Python ██████████
 NoSQL DB ██████████
 C / C++ ██████████
 Kubernetes ██████████

Experience with:

C#, AWK, Ruby, Java, Lua, Batch, asm, LaTeX, PHP

Education

University of British Columbia
September 2012 - April 2018

Bachelors of Applied Science, Computer Engineering (Software Option)
Completed 137 of 150 credits

Languages

English (native)
Deutsch (A1)