Crystal Hansen

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Professional Profile

Experienced Full-Stack Developer with over 18 years in web and application development, data analysis, system integrations, and migrations. Adept at building and maintaining scalable, high-performance applications in Angular and JavaScript frameworks, Java, Python, Flask, .NET, C#, Drupal, PHP. Passionate about problem-solving, automation, and optimizing system performance. Extensive experience in API integrations, database architecture, and secure web infrastructure.

Technical Skills

- Programming Languages: Java, Node.js, Python, PHP, .NET (C#, VB)
- Web Development: Angular.js/Angular 2/Drupal/PHP, HTML5, CSS3, Bootstrap,
- · Backend & APIs: WebAPI, Spring Boot, JDBC, RESTful APIs, SOAP
- Database Management: MySQL, PostgreSQL, SQL Server, MariaDB,SAS EG
- Content Management & Migrations: Drupal, Wordpress, custom modules, SEO file optimizations, Google Search Console, GTM, LinkedIn/Google ads
- **Mobile Development:** iPhone development, (Swift, Objective-C)
- Server & Deployment: Tomcat, Catalina, Apache, Nginx, Docker, Ubuntu, Unix, Linux
- Security & Optimization: DKIM, SPF, OAuth, Basic Authentication, Role Base Access
- Version Control & CI/CD: Git, GitHub, GitLab, TFS, Drush, Composer, Agile methodologies

Experience

Al technologies.

FOUNDER, DEVELOPER, CRYSTAL HANSEN ARTOGRAPHIC; CANADA 2013-Present Personal Projects & Self-Initiated SaaS Applications (2019 – 2021, 2025)

Consistently developed projects to stay current with modern web, backend, cloud and

Current work - March 2025 - present

- Al/NLP Chatbot SaaS Developed a micro-service chatbot using Spring Boot, Spring MVC, OpenAl GPT API, and AWS EC2 deployment. Focused on emotional support and custom fortune-telling prompts. fortune.ai (Oribie) available at <u>pinmento.com</u> web based.- tba mobile v2. Happy2Be.ai web based - tba mobile v2 (March - April 2025)
- Data Trend Generator Python sales generation tool designed to mimic current sales trends in photography for mock data used in dashboard example at https://artog.co/user/1/dashboard v1, tba - mobile v2
- Deployment of applications built from 2019-2021 into cloud platforms. AWS/ Google Cloud

Past Work: Sept 2019-Feb 2021

Studio Booking & Rentals SaaS – Designed and implemented a cloud-based application for managing studio bookings, rentals, and calendar views using Angular (TypeScript v2+), Java, Spring / Spring Boot, and Hibernate. (Sept 2019 – Mar 2021)

- Gallery & Portfolio Platform Built user-facing features for selling photo prints, showcasing work, and collecting client reviews. Tech stack: Angular, Java, Spring Boot, Hibernate. (Sept 2019 – Mar 2021)
- Dynamic Gallery Display Created masonry layouts for image galleries with lazy loading, using vanilla JavaScript and Java, Spring for the backend. (Sept 2019 – Mar 2021)
- Data Analysis Tool Built a screen scraping and analysis tool for extracting industry data to support marketing decisions using Python, MySQL, and BeautifulSoup. (Sept 2019 – Mar 2021)

WEB DEVELOPER (FULL-STACK), PGSTECH; — March 3, 2021 - April 4 2025 | Montreal, QC

- Developed and maintained emtp.com (PHP) with optimized performance and security.
- Coded HubSpot and Website data migrations & SEO optimizations, ensuring URL consistency and file naming standardization.
- Stack Technologies used: HTML/CSS3/Javascript PHP/Mysql, Composer, Drush, Docker, Form testing
- Integrated HubSpot APIs, Brevo API, PayPal gateway using PHP within a
 Drupal framework for automated lead management coupled with forms and
 email marketing, deals and sales.
- Built **custom modules** for file handling, ratings, and email subscriptions.
- Optimized website PHP/Drupal API performance, resolved caching issues, and implemented security best practices.

Key Projects:

- Star Rating System: Migrated PHP-based ratings into structured Drupal.
- CRM Migration: Designed and executed HubSpot data migration workflows.
- Drupal **CMS Migration:** Designed and executed website data migration content types and custom module integrations.
- Brevo API Integration: email marketing campaigns with API automation.
- In-App Advertising API: Developed secure EMTP-based monetization tools.

CANADIAN WESTERN BANK Dec 4 2011 – 2019 | EDMONTON, AB Manager, IT Risk (2018 – 2019)

- Developed credit risk models and scorecard applications using Java
- Built Java applications using JSP, Struts, JavaScript, AJAX, SAS backend
- Designed Bug/Developer ask tracking system JSP, Spring, Hybernate
- Developed one-page UI forms for scorecards (HTML, CSS3, Javascript)
- Worked directly on backend (JDBC, SQL) and frontend (JavaScript, AJAX)

IT Risk Analyst (2016 - 2018) — Java Developer

- Designed real-time financial data pipelines for risk analysis and forecasting.
- Built risk assessment applications using Java, SQL, and REST APIs.

- Developed data analysis and model validation for regulatory compliance.
- Built Java applications using JSP, Struts, JavaScript, AJAX, SAS backend
- Scorecard Systems: Engineered quantitative and qualitative scorecard applications, integrating automated risk rating logic and real-time data processing.
- Backend Development: Developed and optimized JDBC-based SQL queries for Oracle/MySQL, ensuring efficient data retrieval and storage.

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- Task & Bug Tracking System: Built a custom task tracking system in Java (non-Struts JSP) with a parent-child structure for seamless workflow management following Agile methodologies.
- Front-End Development: Designed AJAX-driven, single-page data entry forms for streamlined user experience and faster data input.
- **Testing & Debugging:** Conducted unit testing, performance tuning, and troubleshooting to ensure application stability and efficiency.
- Nominee Pillar Award Q3 Achievement Awards, Canadian Western Bank 2017

Application Developer II (2013 – 2016)

- Developed various Java & .Net tools to support financial migrations ETL processes, Multi-threading, transactional log processing tools.
- Develop SQL SSIS Testing and deployments for a Temenos T24 banking system migration, optimizing SQL for go-live processing.
- Transformations created using SSIS .NET tools to transform Accounts, Terms,
 Transactional Data types in new T24 Standards

Education

Northern Alberta Institute of Technology, Edmonton AB — **Computer Systems Technology**, 2009 University of Saskatchewan, Saskatoon, SK - **BA**, 2002-2005

Reference:

Jean Mahseredjian, President PGSTech, jean@emtp.com +1 514 237 8289.