Hassan Tavari

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hassantavari.com

EDUCATION

Saint Mary's University   Halifax, NS
Bachelor of Science in Computing Science and Business Administration   *May 2019 – Sep. 2023*
GPA 3.89 (magna cum laude)

TECHNICAL SKILLS

Languages: Java, TypeScript/JavaScript, SQL, Swift, C#, Python, PHP, SCSS, HTML/CSS
Databases: SQL Relational Databases (RDBMS), NoSQL, AWS DynamoDB, MongoDB
Frameworks/Libraries: Spring, Hibernate, JPA, React, Node.js, Next.js, Tailwind CSS, Electron, React Native
Cloud Services: AWS (Lambda, EC2, ECS, SNS), Oracle Cloud
Developer Tools: Git, Docker, VS Code, IntelliJ, Xcode
Platforms: Web, Android, iOS, Desktop
General Skills: API / Web Services Development, UI/UX Design, Software Architecture, Design Patterns
Interests/Studies: Rust, GoLang, Functional Programming, Elixir + Pheonix LiveView, VR/AR, AI/ML

PROJECTS/EXPERIENCE *(portfolio on hassantavari.com)*

ERP Solution | *Java, JavaScript, SQL, C#, Spring, React, Python, Maven, NPM*
- Developed accounting, financial and businesses systems collaboratively and along side domain experts in different industries such as restaurants, retails, wholesales, shipping and logistics, LMS, cinema management, etc.
- Point of Sale in web terminal and mobile app, inventory and warehouse management system, delivery management with mobile app, CRM and lead management, barcode and QR code system, etc.
- Real time service and monitoring using WebSockets and AmazonMQ
- Build system developed in Python for multiple tenant and environments
- Implemented the STOMP protocol in C# for real time thermal printer server

Online Store Websites | *TypeScript, Next.js, Java, Spring, JSX, Tailwind CSS, SCSS*
- Built with focus on SEO and high performance using the latest technologies (Next.js, RSC)
- Implemented features such as authentication, online cart, ordering, tracking, etc.
- Integrated with ERP system's invoicing, inventory and order management

Virtual Class System | *AWS, Node.js, mediasoup, DynamoDB, React, Java, JavaScript, Spring*
- Serverless architecture using AWS Lambda and DynamoDB
- Online live camera/mic/screen/whiteboard streaming using WebRTC
- Support for Android, iOS, Linux, Windows, macOS and web platforms

Chat and Video Calling Application | *TCP, UDP, JavaFX, Java, Swift*, MongoDB*
- Custom designed application layer protocol over TCP and UDP
- Custom binary data-interchange format
- Implemented TLS 1.2 using Java SSLEngine
- Scalable non blocking IO server implementation using sockets
- Video and audio call conference system using Opus and H.264 encoders/decoders

Mobile App Development | *Java, Swift, RESTful Api Server, React Native*
- Multiple mobile apps using Java, Swift, Objective-C and React Native consuming different web service APIs
- Android game with speech recognition features and custom binary game level file formats

CRM and Call Center Software | *TAPI, SIP, JavaFX, Java, Spring, SQL*
- TAPI and SIP (using PJSIP) support
- Reverse engineering outdated proprietary data formats
- 3rd Party API integration

CMS Plugins | *PHP, WordPress, Magento*
- Web PHP plugins integrating with external and internal APIs