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Objective

Seeking a career as a software engineer to further enrich my experience in the software engineering domain.

Education

2012 – 2015
Bachelor of Science in Computer Science
Lebanese International University

2010 – 2012
Lebanese Official Baccalaureate
Galilee Secondary School

Experience

Feb 2017 – Present
Software Engineer – Vestacare Inc. (US)
Vestacare is a company that works in automation and payment solutions for healthcare providers and hospitals.
Technologies used: Java, J2EE, JBOSS, Spring, Angular, Oracle, JSP, Apache NiFi, Spring Boot

Oct 2015 – Dec 2016
Web Developer and Mobile Application Developer – Browse-Me (Member of Adways Group)
Browse-Me develops websites and mobile applications.
Technologies used: PHP, MySQL, HTML, CSS, JQuery, JavaScript, AngularJS, Bootstrap, Java

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Projects

Vestacare Projects

- **Vesta – ACH**
  Manages checks and payments submitted to banks.
  Technologies: JSP, Java 12 (Servlets), Oracle, JBoss, Tomcat, JDBC
- **ACH Workflow**
  Retrieves and transforms server files into EOB files.
  Technologies: Java 11, Oracle, Apache NiFi
- **Claims Automation Login**
  Displays EDI files with error correction through a portal.
  Technologies: Java 11 (Spring Boot), Angular 7, Oracle, JBoss, Tomcat

- **Claims Workflow System**
  Automates parsing, validation, and processing of claim files.
  Technologies: Java 11, Spring Boot, Oracle, File Processing
- **TM3 – Transaction Management Portal**
  Visualizes claim transactions and error reports with analytics and charts.
  Technologies: Spring Boot, Angular, Oracle, Data Visualization
- **Image Collector**
  Captures and processes scanned image data for further analysis.
  Technologies: Java Swing, JBoss, Oracle
- **PEM (Job Automation)**
  Automates scheduled report generation and delivery.
  Technologies: Angular 9, Spring Boot, Oracle
- **Dashboard Application**
  Displays real-time insights, metrics, and analytics from multiple data sources.
  Technologies: Angular, Spring Boot, Oracle, Ignite

AI-Based OCR and Data Mapping

- **HCFA/UB Claim Image Parser and Mapper**
  Developed a Python-based solution that reads scanned claim forms (HCFA/UB04) using OCR and extracts structured data fields. Implemented AI token classification models to improve accuracy in reading noisy or handwritten documents and mapped extracted entities to predefined templates. Integrated OpenCV for preprocessing (noise reduction, line removal) and ABBYY OCR for high-accuracy text extraction.
  Technologies: Python, OpenCV, ABBYY OCR SDK, HuggingFace Transformers (BERT), Label Studio, JSON Mapping

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Technical Skills

- **Programming:** Java (JDK 6 – 21), JSP, Spring, EJB, Swing, Maven, JBOSS
- **Frontend:** Angular, HTML5, CSS3, Bootstrap, JavaScript, TypeScript, JQuery
- **Databases:** Oracle, Ignite, MySQL, SQL Server
- **DevOps:** SVN, Jenkins
- **Data Flow & Processing:** Apache NiFi, File I/O
- **AI/OCR & Data Extraction:** Python, OpenCV, ABBYY OCR, HuggingFace Transformers, Label Studio
- **OS & Tools:** Linux, Windows