Mohamad EL-Chanti

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PROFESSIONAL EXPERIENCE

Co-Creator, Software Engineer, *Trellis* Aug 2022 – present
Toronto, Ontario

Trellis is an open-source, self-hosted, and low configuration CICD pipeline that deploys serverless applications on AWS

- Co-created a CICD pipeline for serverless applications using Node.js, AWS CDK, and AWS SDK
- Implemented a build server using Fargate Task that gets its containers from ECR and communicates with AWS Secrets Manager to collect users' confidential information
- Designed and developed a backend that consists of a collection of serverless Lambda functions, an API gateway, and a DynamoDB
- Created a dashboard using React, hosted on AWS S3 bucket and delivered using AWS CloudFront, to abstract away complexities of deploying serverless applications
- Authored a comprehensive case study on the design decisions encountered while creating the pipeline and the different problems Trellis solves

Senior Manufacturing Equipment Engineer, *Tesla Motors Inc* Nov 2017 – Jan 2022
Fremont, California

- Integrated a VMT system and programmed Fanuc robots to improve the quality of urethane bead application on the roof and windshield glass for Model Y
- Worked with excel VBA to analyze parts introduced with the PLAID launch for Model S and Model X to differentiate them from existing models

Android Developer (Intern), *TD Canada Trust* Jan 2013 – Apr 2013
Toronto, Ontario

- Worked on the front-end of the application using Eclipse to communicate with JavaScript on the backend to add the “mobile-to-mobile” payment of the TD android application

SKILLS

Back End:
- Node.js
- Python
- Express
- Java
- RESTful APIs

Front End
- JavaScript
- React/Redux
- HTML
- CSS
- jQuery
- Android Studio

Other
- Docker
- AWS Services (SDK | CDK | SST)
- GiT
- Heroku
- Digital Ocean

Databases
- PostgreSQL
- SQLite
- MongoDB
- DynamoDB

EDUCATION

SOFTWARE ENGINEERING & FULL STACK DEVELOPMENT, *Launch School* 2022

- Attended a mastery-based education program focused on software engineering fundamentals
- Developed open-source web applications with technologies such as Node, PostgreSQL, React, JavaScript, HTML and CSS

BASC HONORS MECHANICAL ENGINEERING - MANAGEMENT SCIENCES OPTION, 2017
University of Waterloo Waterloo, Ontario

- Awards: Nominated to most innovative award for the fourth-year design project
- Project: Designed a PCBA with Bluetooth capabilities and programmed an Android application to communicate with an Arduino set and control an automated soccer ball launcher.