# Mohamad EL-Chanti

## *Software Engineer*

✉ m.elchanti@gmail.com   📍 Toronto, Ontario, Canada   in https://www.linkedin.com/in/mohamadelchanti/

○ https://github.com/melchanti   ➤ https://www.dev.mohamadel-chanti.com/

---

## 💼 PROFESSIONAL EXPERIENCE

**Co-Creator, Software Engineer,** *Trellis* ⧉          Aug 2022 – present
Remote

- 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 safely leverage users' secrets for authentication
- Designed and developed a backend that consists of a collection of serverless Lambda functions, an API gateway, and a DynamoDB Database
- Built a React-backed dashboard tool that allows users to manage their pipeline while abstracting away the complexities of deploying serverless applications, maximizing ease of use. Hosted with AWS S3 and delivered with AWS Cloudfront
- 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

- 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.