

Carlos Santana

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Full Stack Engineer with 5+ years of paid hands-on development experience building scalable web applications in both front-end and back-end development. Excited about contributing to products that make a difference in users' lives.

Work History

DemandHub, Mississauga ON – Full Stack Engineer

MAY 2019 – PRESENT

- Engaged in the full lifecycle of DemandHub product development within a 4-5 person team, including scoping, feature design, development, debugging, and testing for DemandHub product features. Using both front-end and back-end technologies including **HTML5, CSS, JavaScript, React, Node.js, MySQL, and Redis**.
- Iteratively developed critical features, increasing annual contract values by over 20% in certain cases and impacting thousands of daily active users. Including a voicemail inbox, a review invite queuing system, an internal workflow system, and a shortlink service.
- Integrated with 7+ patient management systems and other systems, optimizing retrieval of thousands of appointment and contact details hourly for automation per customer.
- Led reporting and analytics, overseeing the management of dashboards and pages to provide comprehensive insights while optimizing data aggregation and retrieval processes for hundreds of thousands of records daily.
- Integrated various APIs (GMB, Zapier, GBM) for automation, saving hours in customer onboarding.

Bell, Mississauga ON – Software Developer (Co-op)

MAY 2017 – AUGUST 2018

- Designed, developed, and maintained in-house web tools used by the 50+ person Core Network Team focused on automation and analytics using **HTML5, CSS, Bootstrap, Javascript, jQuery, C#, .Net Core, MSSQL & Postgres databases, Entity Framework, and IIS** to create several web applications used by Core Network Team.
- Worked in a 5-person DevOps team utilizing scrum and agile.
- Executed the Scrum Master Role for 6 months (in addition to dev work). Designed and facilitated bi-weekly meetings, supervised the scrum process within the team, and ensured that proper processes were followed.

EDUCATION

McMaster University – Computer Science Bachelor's Degree

SEPTEMBER 2014 – MAY 2019, Hamilton ON

- Degroot's Den 2018 pitch competition 2nd place Award Winner

SOFTWARE PROJECT HIGHLIGHTS

Touch Roulette – Decision Maker

- Android app developed using Corona SDK and Lua
- **1 Million+** downloads on the Google Play Store
- App to help a group of friends make decisions quickly in a fun way

Pillbox

- Cross platform hybrid app for scheduling and tracking medications
- Built with Angular, Ionic, TypeScript, and .Net Core in a group of 3
- Took the lead on designing Restful API
- Created and used Microsoft OCR API to allow users to take pictures of their prescriptions to automatically enter medications into the app
- Helped deliver 25+ page SRS document

P0 Compiler

- Designed and implemented a **C#** recursive descent parser for the P0 language, a proper subset of Pascal, targeting Common Intermediate Language (CIL) assembly code.
- Used **Test-Driven Development (TDD)** to test correctness. (100+ unit tests)
- Created Command-line interface to compile and run P0 programs