

Ahmed Hawas

Software Developer | Electrical Engineer

A creative and passionate software engineer that is driven to change the world through code. I have more than 4 years of working experience building web and mobile software and I'm constantly looking to learn new technologies and improve my skills.

RELEVANT EXPERIENCE

Think Research, Toronto — Software Engineer

March 2015 - Present

Creating software to mitigate pain points in the healthcare industry and help provide better quality of healthcare. Products worked on include electronic based Order Sets, Medication Reconciliation, clinical notes software and form designer.

- Tech stack includes: **Ruby on Rails, JavaScript, ReactJS, AngularJS, HTML, Sass, PostgreSQL, Phoenix, React Native** and more
- Followed scrum and agile practices including 2 week sprints, daily stand up, backlog grooming, etc.
- Implemented design patterns such as **Domain Driven Design, TDD, OOP** and **functional programming**
- Introduced and presented new technologies to the team such as **Redux, Redux Saga, React Native, Domain Driven Design** and more
- **Led initiative to improve interviewing process**
- **Mentored** new developers joining the team
- **Led an algorithms work shop** once a week during lunch

Plumlytics Inc., Toronto — Full Stack Software Developer

January 2014 - January 2015

Plumlytics is a social predictive analytics tool used by smaller businesses

- Tech stack included: **Ruby on Rails, AngularJS, HTML, JavaScript, JQuery**
- Built a scalable REST API that was integrated with multiple 3rd Party APIs
- Responsible for releases, documenting and communicating with in-house and overseas developers & QA. Put in place processes for **code reviews**.

Jugnoo Inc., Toronto — Junior Backend Software Developer

November 2013 - January 2014

Jugnoo is a social media analytics tool sold as a B2B

- **Ruby on Rails** developer primarily focused on creating the REST API
- Full integration with several social media platforms and APIs

Deutsche Telekom Labs, Berlin, Germany — Research Intern

February - July 2009 & July - September 2008

Worked on multiple research projects for T-Labs in the department of Intelligent Networks under the supervision of Prof. Anja Feldmann

FREELANCE AND PERSONAL PROJECTS

- **N'Able** (August 2016 - Present) — A mobile and web app that allows people with special needs to rate and review places based on accessibility. Technologies used include: **ReactJS, Redux, React Native and Ruby on Rails, Phoenix & Elixir**
- **Telescope AR** (October 2017) — A iOS educational Augmented Reality application of the solar system. Developed in **Swift**
- **Job Hound** (May 2017) — A iOS and Android application that searches, saves and applies to jobs around your vicinity. Developed using **React Native**
- **Cat On Mars!** (March 2016) — A 2D iOS game developed using **Swift**. Used SpriteNodeKit for game physics and Illustrator for game art
- **Footprint** (January 2016) An iOS app developed with **Swift and Ruby on Rails**
- **Artoogo** (December 2014 - January 2016) — A mobile app that helps artists sell their artwork through events. Working on the Ruby on Rails API and the AngularJS and Phonegap frontend. As a co-founder, I was involved with the full product cycle
- **Skills.com** (September 2014 - December 2014) — Worked with another developer to build a mobile app using Google Polymer and Phonegap

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Github: <https://github.com/ahmedhawas>

CodinGame Username: ahmedhawas

SO: <https://stackoverflow.com/users/2733439>

TECHNICAL SKILLS

Backend Development: Ruby, Ruby on Rails, Elixir, Phoenix

FrontEnd Development: JavaScript, ReactJS, AngularJS, JQuery, HTML, CSS, SCSS

Mobile Development: Swift, React Native, Cordova

Databases: PostgreSQL, MySQL

Code Collaboration: Git

Exposed to: Java, C++, Python, NodeJS

Concepts and Design Patterns: Object Oriented Design Patterns, Functional programming, Test Driven Development, Unit Testing and Integration Testing, Domain Driven Design

Operating Systems: Mac, Linux, Windows

Engineering Software: MATLAB, ADS, PSPICE, HFSS, ZELAND, Linux OpenWRT

EDUCATION

University of Toronto (Sept 2013)

Masters of Engineering, Electrical Computer & Engineering

German University of Cairo (June 2010)

Bachelor of Science, Electrical Engineering

Majoring in Communications & Networks

Bachelor Thesis from Deutsche Telekom Labs, Berlin, Germany GPA 3.5 / 4.0 - Honours Student

SCHOOL PROJECTS

Cloud computing project deployed using Amazon Web Services. Java Servlets Web application that can resize its worker pool based on user demand.

Network security project using OpenFlow and Python. Produced flow measurement metrics at an OpenFlow switch. Using metrics, the switch can identify suspicious flow attempts & generate alarms.

Attaxx game - implementing the game's engine, GUI and Artificial Intelligence using Java.

Hardware setup of outdoor access points for a wireless network at the Technical University of Berlin.

AWARDS & EXTRACURRICULAR

Member of AIESEC Cairo & Berlin. Member of 2 organizing committees hosting hundreds of students.

Fundamental Engineering certificate in Electrical Engineering, which is accredited by NCEES in the US.

Received an undergrad scholarship of excellence.

Scholarship to attend language course at the Ludwig Maximilians Institute of Munich.

LANGUAGES

English: Proficient. **Arabic:** Proficient.

German: Limited working proficiency.