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Anthony Francella | Computer Engineer

Work Experience

TELUS Communications

2014 – 2017

Design Specialist

<https://telus.com>

Emerging Mobile Solutions team. Built with and tested out innovative ideas using new technology.

Stayed ahead of the mobile technology curve to lead and advise others in the organization to build better, faster, and cheaper

- Developed Node.js servers for mobile applications using Express.js and MongoDB, enabling apps to create, read, update and delete resources
- Developed middleware server between a VoIP App and IMS enabling inbound voice calls even when asleep by holding SIP Invites and sending a push notification
- Created Proof of Concept of a Facebook chatbot linked with TELUS Identity that would allow customers to get account details through chat
- Leader of integrations with TELUS Identity and API's across our app portfolio, ensuring quick development times and code reuse
- Leader of the IPv6 Compatibility program, ensuring all applications are ready for IPv6-only networks launching in 2017

TELUS Communications

2013 – 2014

Engineer in Training

<https://telus.com>

Graduate Engineering Program – 3rd Rotation – Identity and API

- Created Proof of Concept demonstrating a single app to handle all authentication across TELUS apps and services
- Created Proof of Concept of an Eventing Platform which allow applications to subscribe to network events obtained through network probes

TELUS Communications

2012 – 2013

Engineer in Training

<https://telus.com>

Graduate Engineering Program – 2nd Rotation – Voice Services

- Lab testing of IMS before deployment, preparing to launch VoIP over LTE
- Proof of Concept using WebRTC, showing that high quality video can easily be achieved through web pages without the drawbacks of SIP, demonstrating a threat to a core TELUS service

TELUS Communications

2011 – 2012

Engineer in Training

Graduate Engineering Program – 1st Rotation – Project Management

<https://telus.com>

- Managed and delivered \$20M of capital projects.
- Upgraded an existing Excel spreadsheet for the team with macros to automate tedious monthly and quarterly tasks.

Designfusion

2009 – 2011

IT Sysadmin

Co-administrator of the IT Systems for a small B2B sales business. Made considerable advances in automated processes reducing time for sales and accounting

<https://designfusion.com>

- Salesforce management and process automation
- Automated process to load sales quotes from Salesforce into accounting
- Built a custom tool for a sales lead to convert files from their existing workflow to a SIEMENS Teamcenter file, resulting in a successful sale

Education

University of Toronto

2004 – 2009

Computer Engineering (Bachelor of Applied Science and Engineering)

- Software Development
- TCP/IP Networking
- Wireless Communication

Skills

Front End Web Development

Master

- HTML
- CSS
- Javascript
- Polymer

Back End Web Development

Master

- NodeJS
- Express
- Facebook Chat Bots
- MySQL and NoSQL databases
- JWT, OAuth

Cloud Services

Master

- Google Cloud
- Amazon web services
- Firebase

Native Apps

Intermediate

- React Native

- XCode – Swift
- Android – Java

Interpersonal Skills

Intermediate

- Project Management
 - Training and mentoring
 - Public speaking
 - Proficient on solo-projects and within teams
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Languages

- English Native speaker and writer
 - Italian Beginner speaker and writer
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