

# Amit Maraj

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For more of my experience and projects, see [www.amitmaraj.com](http://www.amitmaraj.com)

## EDUCATION

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### **MSc. Candidate** (Computer Science)

University of Ontario Institute of Technology. Start date: September 2016

### **BIT (Hons.)** (Bachelor in Information Technology – Information Technology Security)

University of Ontario Institute of Technology, May 2016

- Graduated with Highest Distinction (3.97 GPA)

### **Computer Systems Technician Diploma (Ontario College Diploma)**

Durham College, June 2014

**CompTIA A+ certification** (220-801, 220-802)

**JNCIA-Junos** (Juniper Networks)

## EXPERIENCE

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### **Professor** (Faculty of Business, IT & Management)

Durham College | September 2014 – present

- Delivered extensive lectures within a classroom environment of up to 100 students, fostering a conducive learning experience.
- Developed and implemented daily and unit lesson plans for 2nd year students, administered tests and evaluations and analyzed student performance.
- Issued mid-term and final grades, registered students for classes and performed advisor functions.
- **Highlights:**
  - Taught for 7 semesters at Durham College over the past 3 years for a total of 7 different courses within the Computer Systems and Programming streams.
  - Taught 2/3 past semesters at Durham College as partial load after receiving my undergraduate degree.
  - Developed all the course material (lectures, labs, assessments, in-class work) for WEBC6201 – Client Side Scripting and delivered it to third year CPA (Computer Programmer Analyst) students.
  - Developed and delivered lab and lecture material for the course CSYS2 – Software collaboratively alongside a co-professor in Winter 2016 and Summer 2016.

## Principal Investigator

Durham College | December 2015 – present

- Led projects from start to finish for clients including inception of a mutually agreed upon, scope dictated work plan all the way to successful final solution delivery.
- Conducted interviews and hired students as Research Assistants to help aid in project research.
- Supervised progress as outlined in the created work breakdown structure using sound management techniques throughout duration of project.
- Reported project progress to client as outlined in terms of contract.
- **Highlights:**
  - Outstanding Faculty Researcher Award for the year of 2016.
  - Managed over a dozen projects within the course of a year and a half, facilitating work opportunities and mentoring over 15 students.
  - Developed a rigid hiring process for students, giving them the opportunity to learn new technologies over the course of a few months. Students displayed hands-on and research aptitude, simulating both traditional and modern practical interviewing processes.

## Guest Lecturer – Machine Learning

Ryerson University | March 2017

- Developed an introductory Machine Learning lecture and lesson plan to conduct at the 36-hour hackathon.
- Created several fully documented Machine Learning examples, which is hosted on GitHub for use by students in the lecture.

## Teaching Assistant

University of Ontario Institute of Technology | September 2016 – April 2017

- Assisted lead professor in conducting increased learning experience for students through reinforcement lecturing and questioning.
- Accurately marked hundreds of assignments and tests throughout the course of a term.

## Full Stack Web Developer

Ansik Pitstop ([www.getpitstop.io](http://www.getpitstop.io)) | February 2016 – August 2016

Proficiencies: **HTML5, CSS3, JavaScript, React.js, Node.js, Python, MongoDB, PostgreSQL, Git, AWS.**

Backend:

API Server:

- Created a RESTful API with POST, PUT and GET operations to PostgreSQL and MongoDB database management systems using the Swagger API framework utilizing technologies such as: jwt, promises, logging, encryption and robust validation.
- Ensured intended CRUD operational outcomes along with optimal code coverage by writing unit, integration and end-to-end tests using the mocha testing environment, chai assertion library and Istanbul code coverage tool.

Infrastructure:

- Worked with AWS EC2 to manage development and production clusters across multiple availability zones.

- Created and deployed backend cron jobs to collect, correlate and aggregate data from multiple sources to update relevant database tables with pertinent collected data.
- Collaborated with team on code development using the GitHub and Git version control platforms.
- Developed multiple Python scripts for database migration, update and dump automation.

#### Frontend:

##### Dealer Dashboard:

- Developed and implemented complete architecture of company's dealership dashboard - a dynamic web application aggregating and analyzing metrics and data from multiple sources leveraging a variety of external and internal APIs.
- Set up working cloud-based AWS server with a Node.js, Express.js, React.js & Webpack, AJAX and Socket.io technology stack to host the dashboard.
- Implemented dashboard in React.js to compartmentalize individually called data components using WebSockets and AJAX for dynamic page loading and interaction.

##### Website:

- Planned, outlined, developed and implemented entire revamped company website using the Pug (Jade) templating engine on Node.js.
- Implemented CSS3 media queries and fallbacks for cross-browser and mobile viewing compatibility.
- Ported company website to React.js to support for upcoming projects.

#### Full Stack Web Developer

Konkussion inc. ([www.konkussion.com](http://www.konkussion.com)) | March 2015 – October 2015

Proficiencies: **HTML5, CSS3, Bootstrap, JavaScript, Pug (Jade), Node.js, Redis, MongoDB, Git.**

- Wrote efficient and optimized code in Node.js and NoSQL for multiple backend services, such as real time PDF generation and MongoDB collection modelling and interaction.
- Took care of aesthetic design implementations and tweaks and overhauls on company's main webpage, all performed with Pug (Jade), CSS, Bootstrap and JavaScript.
- Procured multiple projects at a time, while completing them within a given time frame along with documenting all my findings and research.

## PROJECTS

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See [www.amitmaraj.com](http://www.amitmaraj.com) for a list of some of my top projects.