

Moulik Gaglani

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EDUCATION

University of Toronto

Toronto, Canada

Honours Bachelor of Science in Computer Science

April 2020

- Notable Courses: Software Design, Computer Vision, Artificial Intelligence, Machine Learning, Algorithm Design and Analysis, Relational Databases.

SKILLS

Languages: JavaScript, Python, Java, SQL, C, PHP, HTML/CSS, Octave

Tools: AWS, Node.js, Express.js, React.js, MongoDB, Django, numpy, pandas, OpenCV, scikit-learn

EXPERIENCE

University of Toronto

Toronto, Canada

Teaching Assistant

Jan 2020 - April 2020

- Managed class grades by grading assignments, and exams for CSC363 (Computational Complexity and Computability).
- Led discussions, and elaborated critical information from lectures to help students understand course material better.
- Provided comprehensive and actionable feedback to students, resulting in remark requests of **only 2%**.

Telus

Toronto, Canada

Software Engineer Intern

Sept 2018 - Aug 2019

- Reduced loss from outages **by \$100,000/year** by developing a full stack web app to monitor and analyze SDN resources.
- Led research and creation of an analytics tool to convert CAPEX to OPEX resulting in cost-saving of **over \$25,000/year**.
- Technologies used: Node.js, Express.js, React.js, MongoDB, OpenStack Compute, VMWare vSphere

University of Toronto

Toronto, Canada

Software Developer

May 2018 - Aug 2018

- Containerized the Programming Classroom Resource System (PCRS), reducing new system launch times **by over 80%**.
- Rewrote and tested new features for PCRS-R, updated technical documentation, and resolved bugs reported by users.
- Technologies used: Docker, Django, Gunicorn, Nginx, PostgreSQL, VirtualBox, BitBucket

PROJECTS

Eye Gaze Authentication

Capstone Project

- Proposed a Linux PAM to implement graphical password schemes that are resistant to shoulder-surfing.
- Implemented a real-time eye-tracking system to determine direction movements on screen.
- Technologies used: Python, OpenCV, wxPython, Linux Pluggable Authentication Module, C

Interview Chatbot

Personal Project

- Built a Facebook Messenger chatbot that answers basic interview questions.
- Developed a Node webhook server that uses rich natural language processing features of Google Dialogflow.
- Technologies used: Node.js, Express.js, Facebook Graph API, Google Dialogflow API, ngrok, Heroku

FindATutor

Course Project

- Collaborated on a team of 5 to develop a PHP web application that lets students connect with tutors.
- Incorporated SMS capabilities to the application using Twilio's Programmable SMS API.
- Led periodic sprint meetings to gather project status, delegate tasks, and define the backlog for upcoming sprints.
- Technologies used: PHP, Apache, MVC, HTML/CSS, Bootstrap, SQLite