

# Saahil Hamayun

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## EDUCATION

### MCGILL UNIVERSITY

#### BENG IN SOFTWARE ENGINEERING

Dec 2018 | Montreal, QC

Faculty of Engineering

Minor Concentration Philosophy

Cum. GPA (last 2 yrs): 3.46 / 4.0

### DUBAI INTL. ACADEMY

#### INTL. BACCALAUREATE

May 2014 | Dubai, UAE

HL: Math, Physics, English Lit.

SL: Business & Mgmt, French B, Chem.

## LINKS

GitHub:// [saahilh](#)

StackOverflow:// [saahil-hamayun](#)

LinkedIn:// [saahilh](#)

## COURSEWORK

### GRADUATE LEVEL

Human-Computer Interaction

Software Language Engineering

### UNDERGRADUATE LEVEL

Algorithm Design

Computer Engineering

Database Systems

Functional Programming

Model-Based Programming

Operating Systems

Parallel Computing

Software Validation

Telecommunication Networks

## SKILLS

### PROGRAMMING

Over 5000 lines:

React • JavaScript • HTML

CSS • SASS • SCSS • Ruby

Rails • Git • jQuery • Java

Over 2000 lines:

Node / Express • Redux

Familiar Technologies:

Mongoose • SQL • npm

Webpack • Babel

HTTPS • NGINX • WebSockets

Bootstrap • Material UI

## EXPERIENCE

### LUX PM SOFTWARE | FULL-STACK WEB DEVELOPER

Dec 2019 – Apr 2020 | Vaughan, ON

- Worked on NextPine, an in-house MERN stack product management app
- Implemented messaging feature by integrating app with company Slack using a React-Redux (with hooks) / Material UI frontend and Node REST API backend
- Optimized app load times and responsiveness through use of more precise redux selectors to reduce no. of rerenders triggered by component updates
- Deployed website on AWS EC2 server with use of NGINX to handle subdomain routing to allow future scaling & to maintain separate live test environment
- Instructed junior developer in use of React & took charge of communications with remote senior developer for feature implementation

### MODD APPS | JUNIOR FULL-STACK WEB DEVELOPER

May 2017 – Aug 2017 | Montreal, QC

- Independently developed custom features for a Ruby on Rails-based application used to manage Shopify collections
- Created a task logging system to track and report changes to system, providing an automated change history & automated error tracking
- Performed black-box tests with RSpec in testing environment to verify methods and queued job functionalities
- Increased data retrieval speed for large product databases by caching entries originally stored on Shopify in a local SQLite3 database, reducing wait times when opening or refreshing webpages for larger collections

### GAMS | SENIOR DESIGN PROJECT

Jan 2018 – Dec 2018 | Montreal, QC

- Created the Graduate Attribute Management System, an app to automate engineering program analysis, saving hundreds of work hours annually
- Designed SQLite3 relational database for the application & implemented Node REST API endpoints to allow data storage and retrieval through the frontend

## PROJECTS

### JSX LITE | <https://git.io/Jvd2H>

2020 | Toronto, ON

- Developed a custom jsx transpiler using Babel with unit tests using Jest

### TETRIS | <https://git.io/Jvd2H>

2019 | Toronto, ON

- Implemented Tetris using React through CRA
- Try: <http://tetrisrh.herokuapp.com/>

### CLASSROOM FRIEND | <https://git.io/fjbHh>

2017 | Montreal, QC

- Developed web app to improve class communication using Ruby on Rails
- Minimized resource waste by finding design flaws early through lo-fi prototypes
- Try: <http://classroom-friend.herokuapp.com/>