

# Vishaal Shah-Chittur

3A Systems Design Engineering

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## Experience

### Software Developer

#### Localcoin

North York, ON 2019

- Designed stack and user experience for new digital currency exchange with Angular 6, Materialize, SCSS
- Built livenet block explorer project on Linux using Bitcore, node, ZeroMQ to resolve 1/4 of customer support tickets
- Set up Agile deployment pipeline (CircleCI, Nexus, Flyway) for development environment and project management
- Developed PostgreSQL data models for Retail Platform and Admin dashboard applications
- Wrote website extensions for BeaverBuilder, InstaPage to improve Google Analytics engagement metrics by 20%

### Software Engineering Intern

#### All Blue Solutions Inc

Dallas, TX 2018

- Core back-end API and product development for ngDesk
- Developed diverse microservices with Java, MongoDB, Redis to support Spring Boot app running Apache Kafka
- Created web scraper system with jsoup and db2jcc4 to aggregate ~1 TB volumes of client EMR data
- Built main messaging interface with push notifications (AWS) through publish/subscribe model (STOMP.js)
- Wrote all Java scripts to automate parsing of IBM external sales CSV's into internal SugarCRM (MariaDB)

### Application Developer

#### Kenna

Mississauga, ON 2016 - 2017

- Full stack development with MS SQL Server and IBM Lotus Notes platform, utilizing Domino Designer
- Created and updated various functionalities for tools
- Programmed dynamic interfaces for client projects
- Built backend PDF generation system for warranties
- Manipulated application data models to streamline load times by 90%
- Optimized SFTP network using Java (JSch API)

### IT Analyst

#### Toronto-Dominion Bank

Toronto, ON 2016

- Wrote Python scripts with Splunk API to research cloud data on 5000+ VM's for Enterprise Capacity Management
- Parsed retail and email data with VBA to tabulate and analyze constant Monthly Operational Report metrics
- Automated scheduled spreadsheet processing to reduce time by 2-3 weeks, reworked macros for faster solutions
- Designed different data visualization formats for proposal and information decks

## Skills

### Technical

#### Languages & Frameworks

Java (Maven), Python, C++, VBA, LotusScript, HTML, CSS, JavaScript (Angular, node, jQuery), XSP/XML, PHP, Bash (cron), MATLAB, MQTT, Arduino, Git, REST, Elasticsearch

#### Databases & Servers:

SQL (MS, MySQL, PostgreSQL), DB2, Notes, MongoDB, Apache Tomcat, WebSphere Liberty, Domino

### Personal

- Social & networking
- Communication
- Quick learner
- Leadership
- Strategy & planning
- Analysis

#### Creation:

Sketch, SolidWorks, Logic Pro X, Adobe Photoshop, Flash, MS Office Suite, Eclipse, PyCharm

## Projects

### Rock Paper Scissors EMG

Built analog circuit to read electrode signals, implementing amplifiers, filters, wave rectifiers, and a peak detector

### Dicejack

Created Blackjack simulation through various hardware configurations and programming with Arduino UNO

### Kōan – Hack The North 2016

Panic attack prevention app built with MUSE Headband SDK, using Python, Firebase, Ruby on Rails, node.js, Twilio API

### Dream Team Pong

Developed ping pong game using Python and QtGUI interface

## Education

University of Waterloo (Class of 2021)

Candidate for Honours Systems Design Engineering (BASc)

**Awards:** President's Scholarship, Motorola Eng. Scholarship

**Relevant courses:** Computation, Human Factors in Design, Digital Systems, Data Structures and Algorithms

Glenforest Secondary School (2011-2015)

International Baccalaureate Diploma

**Graduating Average:** 95%

## Activities and Interests

- Music
- Design
- Cooking
- Environment
- Economics