

# Vishaal Shah-Chittur

Systems Design Engineering

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## Experience

### Software Developer

#### Localcoin

North York, ON 2019

- Designed user interfaces and flows for digital currency exchange using Angular 6, Materialize, SCSS
- Created livenet block explorer on Linux to query transactions and addresses with Bitcore, node.js, ZeroMQ
- Developed backend models for Retail Platform and Admin applications (PostgreSQL, Flinks, GeneralBytes)
- Set up deployment pipeline with CircleCI, Nexus, Flyway
- Wrote website extensions for BeaverBuilder, InstaPage to improve Google Analytics engagement

### Software Engineering Intern

#### All Blue Solutions Inc

Dallas, TX 2018

- Core backend API and product development for ngDesk
- Wrote diverse microservice packages with Java, MongoDB, Redis to support Spring Boot app running Apache Kafka
- Created web scraper system with jsoup and db2jcc4 to aggregate/pull large volumes of new client EMR data
- Built main messaging interface with push notifications (AWS) through publish/subscribe model (STOMP.js)
- Generated 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 IDE
- Created and updated various functionalities for tools
- Programmed dynamic interfaces for client projects
- Built backend PDF generation system for warranties
- Manipulated SQL data structuring to streamline load times for various modules
- Optimized SFTP network using Java (JSch API)

### IT Analyst

#### Toronto-Dominion Bank

Toronto, ON 2016

- Parsed retail and email data with VBA to tabulate and analyze Monthly Operational Report metrics
- Built Python scripts with Splunk API to research cloud data on TD VM's for Enterprise Capacity Management
- Consulted for visualization techniques in informational reporting and proposal decks
- Automated scheduled spreadsheet processing and reworked team macros to deliver faster solutions

## Skills

### Technical

#### Languages & Frameworks

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

#### 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