Vishaal Shah-Chittur

Systems Design Engineering

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Experience

Software Developer
Localcoin
North York, ON 2019

- Designed user interfaces and experience for 17M user base for Retail Platform with Angular 6, Materialize, SCSS
- Developed new livenet explorer project on Linux to query blockchain network using Bitcore, node, ZeroMQ
- Set up Agile deployment pipeline (CircleCI, Nexus, Flyway) for development environment and project management
- Built PostgreSQL data models for Retail Platform project and Admin dashboard applications
- Wrote website extensions for BeaverBuilder, InstaPage to improve Google Analytics engagement by 20%

Software Engineering Intern
All Blue Solutions Inc
Dallas, TX 2018

- Core backend 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 IDE
- Created and updated various functionalities for tools
- Programmed dynamic interfaces for client projects
- Built backend PDF generation system for warranties
- Manipulated SQL data structures to streamline load distribution 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), 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