Govind Mohan

University of Toronto

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Objective:

My inherent curiosity drives me to creative solutions to any problem I am faced with. I perform best at open-ended tasks where I can derive effective solutions from my wide knowledge base. I specialize in Blockchain development and backend web development with Node.js. I am highly interested in Blockchain applications as a career focus.

Technical Skills:

Languages: Java, JavaScript, Solidity, Python, C, C++, Assembly (x86), HTML/CSS, MATLAB, Bash, LaTeX, MySQL
Applications/Frameworks: Node.js, SQL, Firebase/Google Cloud Platform, Truffle, Remix IDE, ETH/BTC Testnets, JDK Libraries, Adobe Photoshop, Facebook API, Amazon AWS (Lambda and S3 Buckets), Heroku, ReSTful APIs

Professional and Volunteer Experience:

May 2018 – Present
CoinRoster
Blockchain Developer

- Tech-stack: Node.js, Java, MySQL, HTML/CSS
- Responsible for completely automating User deposits and withdrawals
- Developed a fractional payment flow that left user funds uncompromisable by moving them to an unexposed cold storage and conducting transactions using a “cash register” with limited funds
- Queried Bitcoin blockchain using GET and POST requests to various API endpoints
- Conducted transactions on the blockchain using Blockcypher's Node.js API
- Used JSON RPC to communicate between Java backend and Node.js server on the same server using POST requests on the Node server's port
- Generated unique QR codes of Bitcoin addresses for transferring funds

September 2016 – April 2018
University of Toronto E.J. Pratt Library (Toronto, Canada)
Systems Support

- Developed a chatbot using Node.js that provides staff with alerts and reminders. It can also be used to find out which students are currently working
- Developed a Python script that parses Calendar files (.ics) and calculates pay
- Chatbot is deployed on Heroku API with Slack API and Google Calendar API
- Created a Facebook chatbot that provides basic assistance to patrons
- Provided support to patrons of the library for using resources such as printers, scanners, iPads, Chromebooks
- Diagnosed and solved problems with patrons’ computers and electronic devices

March 2017 – April 2018
Caredforapp.ca (Toronto, Canada)
Full Stack Android Developer

- Canadian startup that seeks to connect relatives of senior citizens who require care with their caregivers
- Built backend for production level application
- Gained proficiency in working with Google's NoSQL Firebase Storage system
- Created a smooth UX using customized XML animations
- Used a Node.js server to communicate with Firebase application when various events occurred
- Sent email updates to users when certain events occurred

- Used API calls to generate a unique QR code and embed it in an email
- Used Android library to parse the QR code and get contents to abstract user experience from technical implementation

Education:

March 2002 – April 2014

The Indian School, Al Ghubra (Muscat, Oman)

- *AISSCE Completion certificate*

September 2014 – March 2018

University of Toronto, Scarborough (Toronto, Canada)

Bachelor's Degree (Ongoing)

- Double major in Computer Science and Philosophy, with a minor degree in Economics
- Courses taken include Intro to Computer Science (Python, OOP fundamentals, Computation Theory (algorithm design and complexity analysis), Software Design (built an android application), Computer Organization (Assembly programming), Software Tools and Systems Programming (Created a Linux server), Algorithms, Data Structures, Numerical Analysis, operating Systems (Creating a custom Linux Distribution), Mathematical Logic (Foundations of Mathematics), International Economics, Price theory (with a focus on Macroeconomics) and a trove of very interesting philosophy courses

Other Achievements

ETHUofT 2018

- Team was awarded Overall Winners, receiving 2 ETH
- Created a decentralized data exchange platform that provided entities access to raw data while also providing access to data scientists
- Developed a web app with a Solidity backend using Truffle
- Created a smart contract that facilitated a proof of existence on chain containing hashed data
- Model data was stored on Firebase with Hash, intended as a checksum for verification
- http://data-x.herokuapp.com/

NBTC Case Competition 2017

- Pitched a decentralized etransfer and money pooling service to CIBC

Hack the North 2017

- Team developed an Alexa skill that runs a predictive model for soccer scores based on data from Kaggle
- Connected to a Facebook chatbot

The Varsity

- Contributed occasionally to the Science and Technology section for U of T's student run magazine
- https://thevarsity.ca/author/govindmohan/

Some Projects (Found on GitHub):

- *Raspberry Pi Server:* Created a personal cloud server using a Raspberry Pi 3 and an external Hard Disk Drive to have all my data stored safely and so it is accessible from anywhere
- *Copy_C:* A project written in C to emulate copy-paste given a source file/directory and a destination
- *AdMiner:* A basic Node.js app that experiments with the coin-hive API for mining Monero (XMR) along with the node-on-android library
- *FileServer_C:* A simple file server in C that can receive a single file from the internet given a source address and a destination address, modelled on rcopy.
- *SpotifyTopPlaylist:* Node.js app that gets a user's most listened tracks for a month and generates a playlist composed of these songs
- *GovCoin:* Smart Contract developed using Solidity and deployable on the Ethereum (Ropsten) test network