VISHESH JAVANGULA

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EDUCATION

The George Washington University
BS in Biology, minor in Computer Science
GPA: 3.41
Programming Languages: Java, C, PHP, Python

PROFESSIONAL EXPERIENCE

Blockchain/Cybersecurity Research Assistant June 2018 - Present
Xiuzhen (Susan) Cheng's Lab

- Modeled designs for a partitioned blockchain protocol used in Normachain paper
- Deployed Token Smart Contracts using ERC20 standard via Solidity Programming Language
- Administered 5 team presentations throughout the development cycle

University Undergraduate Teaching Assistant August 2017 - Present

- Assisted first year undergraduate students on lab techniques: PCR, Gel Electrophoresis, Bacterial Transformation
- Conducted lectures outlining common biological processes
- Calibrated necessary lab equipment to minimize probability of error during lab sessions

Research Assistant at Neglected Diseases of Poverty August 2016 – June 2017
Dr. Galadriel Hovel-Miner's Laboratory

- Programmed image processing algorithm via Imagej and Java for quantifying cell organelles
- Engineered pure, modified bacterial DNA using Maxi and Miniprep apparatus
- Applied Nanodrop technology to determine DNA concentration in nanograms/per microliter
- Ensured reusability of laboratory equipment using autoclave device

TECHNICAL PROJECTS

University Banweb Web-application

- Used MySQL, HTML, and PHP to create a full-stack web-application consisting of application, registration, and advising systems. MySQL was used to house the courses, students, faculty, and alumni. HTML was used to make an intuitive UI for endusers to navigate the website's features. PHP was used to write the underlying logic that interacts with both HTML and the SQL database.

Smart Contract Voting Decentralized Application

- Used the Solidity programming language to engineer a smart contract on the Ethereum Network. Using Ether, participants could vote on a candidate of their choosing without worrying about any malicious attacks that could alter their vote. Currently under development for Tokoin paper.

LEADERSHIP

Grassroots On-site Work Coordinator June 2016 – August 2017

- Profiled 40 Ugandan children in need of financial support for higher education
- Hosted 30 weekly meetings discussing future financial investments and project updates
- Created a Greenhouse project as part of the NGO's sustainability effort

PUBLICATIONS

- NormaChain: A Blockchain-based Normalized Autonomous Transaction Settlement System for IoT-based E-commerce (Published)