Sandhya Chandramohan

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE
MASTER'S IN COMPUTER SCIENCE
Expected Dec 2019 | Irvine, CA
CGPA: N/A

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS
B.TECH IN BIOTECHNOLOGY
Grad. July 2014 | Chennai, India
CGPA: 8.07/10

CERTIFICATION

CONSENSYS ACADEMY
BLOCKCHAIN DEVELOPER
Full Scholarship - Top 100/1000
Grad. Sept. 2018
Grade: 93/100

HACKATHONS

BLOCKCHAIN INDIA WEEK HACKATHON | May 2017
RUNNER-UP
Placed 2nd/15 Teams

LINKS

Github:// **s4ndhyac**
LinkedIn:// **sandhyachandramohan**
Twitter:// **@s4ndhya**

COURSEWORK

GRADUATE
Algorithms
Data Management
Artificial Intelligence
Internet of Things

SKILLS

LANGUAGES
Over 5000 lines:
C# • Python • Solidity • SQL • LINQ
Over 1000 lines:
C++ • C • JavaScript • HTML • CSS

FRAMEWORKS/ LIBRARIES
Extensive
.NET • Web2Py • Truffle • Web3.js
Comfortable
React.js • Bootstrap • Azure .NET SDK

EXPERIENCE

SENIOR MEMBER OF TECHNICAL STAFF | CAPITAL FLOAT
May 2017 – Aug 2018 | Mumbai, India
- Developed Amazon Pay EMI (India), for instant loans at Checkout on Amazon.com by Capital Float, used by millions of people in India daily
- Pioneered the Publish-Subscribe Messaging pattern to scale the system 10x
- Implemented Distributed Locking using Redis to handle 100% of all race conditions in a multi-user web application
- Reduced deployment downtime by 100% adopting the Blue-Green deployment strategy, hosting on IIS Server

MEMBER OF TECHNICAL STAFF | CAPITAL FLOAT
May 2016 – May 2017 | Mumbai, India
- Engineered a thread-safe implementation, synchronizing critical operations with Mutex objects to enable 100% real-time processing of money transactions via API
- Increased productivity by 3x and reduced Operations Expenditure by 55%, automating workflows through a network of Crons and Schedulers
- Improved database performance by 30% and ensured 99.99% database availability by setting up MySQL Master-Slave Replication
- Secured sensitive JSON-RPC APIs with a combination of Symmetric AES and Asymmetric RSA Encryption algorithms

SOFTWARE DEVELOPER | CAPITAL FLOAT
May 2015 – May 2016 | Mumbai, India
- Redesigned a Windows Desktop WPF application in the Singleton pattern to a multi-tier architecture RESTful Web Application following the MVC pattern
- Spearheaded the Unit of Work development pattern to carry out operations comprising a business process as one atomic transaction
- Ensured fast AGILE development cycles and codebase robustness by integrating the NUnit and Moq Libraries for Unit Testing and Mocking

PROJECTS

BOUNTYDAPP | DECENTRALIZED APPLICATION FOR BOUNTY PROGRAMS
Aug 2018 – Sep 2018
- Architected and developed a DApp on the Ethereum Blockchain, writing Smart Contracts between the Bounty Creator and Bounty Hunter
- Adopted the Checks-Effects-Interactions Pattern and the Circuit Breaker Pattern to mitigate against known attacks and ensure secure code
- Deployed the smart contract to the Rinkeby Testnet and hosted the DApp on IPFS
- Ensured 100% test case code coverage writing Unit Tests in Mocha and Chai JS

ROJI | DECENTRALIZED FINANCIAL INCLUSION PLATFORM
Apr 2017 – May 2017
- Led the development of a platform for the 600 million strong informal work economy in India, through Smart Contracts between the Employer and Employee
- Implemented a multi-sig Escrow mechanism, holding ETH in an escrow contract
- Enabled Weekly/Daily/Hourly Micropayments to the Employee in Wei

AWARDS

2016	1st/10 Teams	Capital Float Tech-Olympics
2016	1st/50	Founder's Institute Ecosystem Scholarship
2015	Top 1% of 1 million	Indian Civil Services Preliminary Examination