Cheran Senthilkumar

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Education

IIT Guwahati | CLASS OF 2018

B.Tech. in Maths and Computing

Class Representative, 2014 - 2018 President at MATRIX, 2016 - 2017

Skills

Programming Languages

Fluent: Python, Go Skilled: C/C++, Bash Familiar: Haskell, JavaScript

Decentralized Technologies

• BitTorrent • ECC • Secret Sharing

Machine Learning

• Keras • TensorFlow • Torch

Database Programming

• Neo4j • Redis • MongoDB • SQL

DevOps

- CircleCl Helm Kubernetes
- AWS GCP Docker

Links

O Github://cheran-senthil

in LinkedIn://cheran-senthil

II. Codeforces://c1729

Coursework

Mathematics

Optimization Combinatorics Graph Theory

Computer Science

Data Communications
Operating Systems + Practicum
Computer Networks + Practicum

Finance

Monte Carlo Simulation Stochastic Calculus Statistical Analysis + Practicum

Experience

Chesslang | Senior Software Engineer

Aug. 2020 - Dec. 2020 | Remote Contract

General Backend and DevOps programming related to new features and deployment.

Torus Labs | Software Engineer

Jul. 2019 - Aug. 2020 | Singapore

Worked on Decentralized Server Architecture, OAuth flows for login, DevOps, Automated Testing Frameworks (CI/CD) & Architecture, and Deployment Scripts.

Al Palette | Machine Learning Engineer

Jan. 2019 - Jun. 2019 | Remote

Natural Language Processing to generate solutions for the Food & Beverage industry.

BlockPunk | Software Engineering Intern

Oct. 2018 - Jan. 2019 | Remote / Singapore

Blockchain Engineer at BlockStudios, wrote Smart Contracts for NFCs and TCRs.

Goldman Sachs | SUMMER ANALYST

May 2017 - Jul. 2017 | Bengaluru, India

Interned as a strat with the Investment Management division of Goldman Sachs.

Projects

kNight.js | CRYPTO WEBMINER

kNight implements cryptonight_v7 and was one of the first free alternatives to coin-hive as a CryptoNight miner built with JS and C/C++ (WebAssembly).

Run on EC2 | CLI Tool

run-on-ec2 is a versatile CLI to guickly execute scripts on an AWS instances.

PyRival | Competitive Programming Library

A pure Python library with optimized algorithms and tools for rapid execution.

Research

Bachelor Thesis | Congruences of Partitions

Jul. 2017 - Apr. 2018 | Dept. of Mathematics, IIT Guwahati, India

Worked with Abhishek Tyagi and Dr. Rupam Barman to investigate Congruences of Partitions, specifically pertaining to Rank Differences and Cubic Partition Pairs.

Summer Research | NUMBER THEORY

May. 2016 - Jul. 2016 | Dept. of Mathematics, IIT Guwahati, India

Worked under Dr. K. V. Srikanth to investigate the properties of Quadratic Residues. Later implemented a multivariate extension for the Chinese Remainder Theorem.

Contests

2019	1 st (United States)	HashCode Online Qualification Round (71st Globally)
2019	277 / 102,319	ProjectEuler+ on HackerRank
2014	987 th (General)	IIT-JEE 2014 (99.93 Percentile)
2013	16 th (State)	National Mathematics Olympiad (Top 300 Nationally)