Cheran Senthilkumar

cheran.v.senthil@gmail.com

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

CircleClHelmKubernetesAWSGCPDocker

Links

O Github://cheran-senthil

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_

TipTop | Senior Software Engineer

May 2023 - Jan. 2024 | Remote (United States)

Audius | Software Engineer

Dec. 2020 - Apr. 2023 | Remote (United States)

Architected and wrote all internal tooling and process surrounding it.

Chesslang | Senior Software Engineer

Sep. 2020 - Nov. 2020 | Remote (Contract)

Full Stack and DevOps programming related to new features and their 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.

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 quickly execute scripts on an AWS instances.

PvRival | 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)