

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

• CircleCI • Helm • Kubernetes
• AWS • GCP • Docker

Links

 Github:// cheran-senthil
 LinkedIn:// 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

Audius | SOFTWARE ENGINEER

Dec. 2020 - Present | Remote (United States)
Protocol and distributed systems engineer; testing, features and incident response.

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.

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 quickly 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 (71 st 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)