Cheran Senthilkumar

(+91) 824-851-8358 | cheran.v.senthil@gmail.com | U.S. Citizenship

Education

IIT Guwahati | CLASS OF 2018 B.Tech. in Maths and Computing

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

Skills_____

Programming Languages

Over 50,000 lines: Python Over 10,000 lines: C++

Over 1,000 lines: Haskell, Go

Decentralized Technologies

• BitTorrent • ECC • Blockchain

Machine Learning

• Keras • TensorFlow • Torch

Database Programming

• Neo4j • Redis • MongoDB • SQL

Links

O Github://cheran-senthil

in 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_

Torus Labs | Software Engineer

Jul. 2019 - Present | Singapore

Al Palette | Machine Learning FreeLancer

Jan. 2019 - Jun. 2019 | Singapore (Remote)

Deep Learning Engineer at AI Palette, working on solutions for the FMCG industry.

BlockPunk | Software Engineering Intern

Oct. 2018 - Jan. 2019 | Remote & Singapore

Blockchain Engineer at BlockStudios, the first decentralized marketplace for anime.

Goldman Sachs | SUMMER ANALYST

May 2017 - Jul. 2017 | Bengaluru, India

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

Projects_

Bitcoin Keygen | BITCOIN UTILITY FUNCTIONS

Implements ECC in pure Python to generate Private Key-Public Key pairs in various ways. Further supports all utility features required by a Bitcoin node.

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).

Deep Drawing | Image Generator

Generates images based on training data using GAN implemented with Keras.

PyRival | Competitive Programming Library

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

Research

Bachelor Thesis I 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)