Parth SHAH

+91 9538 794 906
@ parthvshah@gmail.com
linkedin.com/in/parthvshah
github.com/parthvshah

EDUCATION

PES University, Bangalore | Bachelors in Technology, Computer Science & Engineering | 2021 | CGPA : 8.96

Involvements	Coding Division Head, The Alcoding Club	Research Project Associate, EEE Department	Head of Finance, PES Model United Nations Society	Core Member, Epsilon 2018
Current Courses	Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence, Advanced Algorithms
Completed Courses	Introduction to Data Science, Data Structures, Design and Analysis of Algorithms, Web Technologies, Database Management Systems, Probability Modelling, Secured Programming with C, Microprocessor and Computer Architecture, Linear Algebra, Introduction to Blockchain Technology
Languages	Solidity, C/C++, Python, HTML/CSS, JavaScript, SQL
Tools & Technologies	MPI, Ethereum, React, Node, Express, Firebase, MongoDB, Django, Git, LaTeX

EXPERIENCE

Current
Jun 2019

Project Intern, SOLID STATE & STRUCTURAL CHEMISTRY UNIT, IISc, Bangalore
> High performance and parallel (scientific) computing
> Analysis of Molecular Dynamics simulations
> Message Passing Interface for parallel computing and various other optimizations

Current
Jun 2018

Coding Division Head, THE ALCODING CLUB, CS&E Department, PES University
> Web portal for the activities of the CS&E department
> Assignment submission, evaluation, contest ranking, online judging, codelabs
> Full stack development and project co-ordination

Nov 2018
Oct 2018

Subject Matter Expert, PES I/O, PES University
> Peer-to-peer learning system
> 4 week course on Source Control and Programming Principles
> Students coached using group discussions and projects

Jul 2018
Jun 2018

Software Developer Intern, HEADRUN TECHNOLOGIES PVT. LTD., Bangalore
> Django framework for responsive websites
> Finance project in Ireland, Skyack | Social media analysis in India, Buzzinga
> Several third party integrations for existing projects to better enable sales teams

FORMATION

2017   Central Board for Secondary Education | National Public School, Koramangala | Vice Captain | 96%
2015   Indian Certificate for Secondary Education | Sishu Griha Montessori & High School | Head Boy | 94%

RESEARCH AND PROJECTS

Ethereum Smart Contracts in Solidity

Jan 2019 - Jun 2019

Variable Labs, Bangalore

Smart contracts designed, tested and deployed for an ERC-20 token, an escrow in Solidity. Development of a universal exchange.

Parallel Implementation and Bench-marking of Prim's Algorithm

May 2019

Prim's algorithm finds the minimum spanning tree for a weighted, undirected graph. The aim of this project was to benchmark a parallel implementation of Prim's algorithm against a sequential implementation. Resources are available at this **link.**

Verilog Stack Implementation

Nov 2018

Implementation of a stack data structure using verilog, a Hardware Description Language (HDL). Resources are available at this **link.**

Evaluation of Speech Engines for use in Air Traffic Control

Oct 2017 - Nov 2018

EEE Department, PES University

Evaluation of Automatic Speech Recognition (ASR) technologies for adoption in Air Traffic Control simulators. Research conducted on pilot communication. Worked on state and error handling, testing. Paper at this **link.**

Advertisement Free Radio

Nov 2017

HashCode, Microsoft Innovation Lab

An application that overlays advertisements in a live stream of radio with the users' favourite tracks for uninterrupted listening. Third place in a 24 hour hackathon.