Parth Shah

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Education

PES University, Bangalore | Bachelors in Technology, Computer Science & Engineering | 2021 | CGPA : 8.98

Involvements	Coding Division Head, The Alcoding Club | Subject Matter Expert, PESU I/O | Research Project Associate, EEE Department
Current Courses	Compiler Design, Cloud Computing, Natural Language Processing
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, Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence, Advanced Algorithms
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 computing (scientific) and parallel computing
> General methods for computing correlation functions
> Message Passing Interface and various other optimization techniques

Dec 2019
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

Jul 2018
Jun 2018

Software Developer Intern, Headrun Technologies Pvt. Ltd., Bangalore
> Django framework for responsive websites
> Finance startup in Ireland, **PayLabs** | 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

Analysis of Fibonacci Heaps

Dec 2019

Bench-marked a Fibonacci Heap against a simple Binary Heap. Simulation of process scheduling and implementation of Dijkstra's algorithm using both. Resources are available at this **link.**

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.**

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.

Verilog Stack Implementation

Nov 2018

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

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.**

Extracurricular Activities, Volunteering

Extracurricular Activities

Head of Finance - Model United Nations Society (2019) | Core Member - Epsilon Science Fest - PES University (2018) | Delegate - Model United Nations (2013-2018) | Robotics - First Lego League & Indian Robotics Olympiad (2013-2015)

Volunteering

Content Creator - Parikrama Foundation (2019) | Primary School English Teacher (Assistant) - BGMS Shishukunj Vidyalaya (2018)