Chaitanya Bharat Shinge

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EDUCATION

Master of Science by Research   *CGPA: 8.07 | Aug 2023 - Jun 2026 (expected)*
Indian Institute of Technology Bombay
- Managed BodhiCoder2023 - a online coding course & coding hackathon conducted by CSE, IITB.
- Working with Professor Varsha Apte on "Software Design for a Rich, Robust and Configurable Access Control in Complex Multi-User Networked Application".
- Worked on IITB Proxy Oauth2 provider for authentication and authorization of users in IITB's internal apps.
- Have taken courses on Design and Engineering of Computing Systems, Foundations of Network Security.

BTech Computer Engineering (Honors)   *CGPA: 8.15 | Aug 2018 - May 2022*
College of Engineering Pune
- Coordinated Mindspark'19 Hackathon, CodeJunkie quiz competition.
- Participated in 91st Regatta Telematches, Online Coding Competitions

HSC | *Secured Ist Rank in Raigad District*   *Grade: 96.31 % | Jul 2016 - May 2018*

SSC | *Secured Ist Rank in School*   *Grade: 94.00 % | Jul 2005 - Jun 2016*

CONTRIBUTIONS

Arduino on Cloud | FOSSEE, IIT Bombay   *Jun 2021 - Sep 2021*
- Improved the feature to save Arduino Circuits in portable JSON based files.
- Designed forms for conducting assignments on LMS and plugged in the Arduino simulation workspace on LMS platform.
- Implemented way to plot Arduino pin voltages as graphs on simulation workspace and store them for grading purposes.

Tools used: angular, django, git

PROJECTS

Configuring IITB Proxy Oauth2 provider   *Oct 2023 - Dec 2023*
Configuring Proxy Oauth2 provider for IITB's internal apps to authorize users from two LDAP servers (one of them was SSO enabled).
- Merged the attributes from two different sources of LDAP servers.
- Configured Django to handle the OpenID Connect based redirections from SSO enabled LDAP server instead of Apache2.

Tools used: django, shell scripting, python3, git, docker

Programming Autograder   *Oct 2023 - Nov 2023*
Toy Programming Autograder to measure and analyze its performance
- Created toy autograders with different thread handling models like thread-pool, mulitithreaded, single-threaded, etc.
- Compared the performance of autograders through graphs.

Tools used: c, makefile, socket-programming, sqlite3, gnuplot, awk, git

curabl | B.Tech. Project   *Nov 2021 - Apr 2022*
A virtual clinic platform connecting doctors & patients
- Developed Single Page application with multi-lingual support to manage doctor and patients profiles and hosted it on Azure VM platform.
- Integrated Razorpay, Jitsi & RocketChat third party services

Tools used: reactjs, expressjs, mongodb, nginx, git, docker, Azure Virtual Machines

Scheduling algorithms in xv6 OS   *Feb 2021 - Apr 2021*
- Implemented Lottery and Priority scheduling algorithms along with (nice, ps) system calls.
- Developed sample programs to test & analyze the implemented algorithms.

Tools used: C, gdb, make, qemu, git

grep command   *Aug 2019 - Dec 2019*
- Implemented grep like command to search patterns in files or directory recursively.
- Implemented various options similar to grep command.

Tools used: C, gdb, make, git

WORK EXPERIENCE

QA Intern | Bajaj Finance Limited, Pune   *Jun 2021 - Aug 2021*
- Performed Black Box testing on Bajaj's 3in1 App
- Worked on documenting & reporting bugs & suggesting ways to fix them.

Microsoft Learn Student Ambassador | Microsoft   *Apr 2020 - May 2022*
- Conducted session in college on Power Apps platform.
- Attended events conducted for MLSA to gain knowledge about Azure, Visual Studio

EXAMINATION

GATE 2023 | Score: 671 (AIR 608)