



# Ajay Ratnam

✉ [ajratnam.dev@gmail.com](mailto:ajratnam.dev@gmail.com)

☎ 6383842602

🔄 [github.com/ajratnam](https://github.com/ajratnam)

in [linkedin.com/in/ajratnam/](https://www.linkedin.com/in/ajratnam/)

🌐 [ajratnam.github.io](https://ajratnam.github.io)

## Projects

### Type Rush

An Application to Improve the Users Typing Speed in a Fun and Interactive Way

### Marstuff

A Python API Wrapper for NASA's Mars Rover Photos API which provides both Synchronous and Asynchronous support.

### Pirated Pixels

A unique CTF platform desgined to work only through SSH

## Education

### Higher Secondary Exam

#### Sri Chaitanya PU College

Score: 88.6% (443/500)

July 2022, Marathahalli

### SSLC Exam

#### Sri Chaitanya Techno School

Score: 88.6% (443/500)

July 2020, Horamavu

### Engineering B.Tech

#### Amrita Vishwa Vidhyapeetham

Computer Science - CGPA: 8.85

September 2022 - Present Bangalore

## Achievements

- Secured **3rd** position in **ShunyaCTF** Finals conducted by **MIT ADT University**
- Won **Most Innovative** award in **IEEE AI Hackathon**
- Cleared **PRMO** and attended a 7-day specialized workshop in Vijayawada
- Achieved **2nd place** in **Hata Code Jam 2020** organized by **Tortoise Community**, received prize and three months of premium **VPS**
- Placed **top 10%** in centre KAJN034 in **NSEJS** exam conducted by **IAPT**

Quick learner with strong proficiency in Python and a solid foundation in cybersecurity.

## Skills & Expertise

- Core Python & Related Libraries
- HTML, CSS, JS & Bootstrap
- RAG, LangChain, Git, Docker
- MongoDB, Firebase, PostgreSQL
- Linux - Binary Exploitation (ghidra, radare2, pwntools, gdb, metasploit)

## Position of Responsibility

### President - CodeChef ASEB

September 2023 - August 2024

### Domain Lead - Binary Exploitation @ bi0sblr

March 2023 - Present

## Certifications

- Cybersecurity & Digital Forensics - **MSME**
- Google Cloud Computing Foundations - **Google Study Jams (GDSC)**

## Trainings & Workshops

- Bangalore Tech Summit - **2023**
- Cybersecurity workshop - **bi0s meetups**
- Sustainability in the Cloud DevOps - **Green Computing TAG Amrita**

## Publications

### Dynamic Chord Identification using Finite State Machines

Submitted to **IEEE GCAT 2024**