

Chethana Gimhan

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PERSONAL STATEMENT

Second-year Computer Science & Engineering undergraduate at the University of Moratuwa with strong skills in software development, VHDL-based digital design, and algorithm design. Experienced in Java, C++, Python, and embedded systems development. I am passionate about cyber security engineering and aim to contribute to securing modern digital infrastructure.

ACADEMIC QUALIFICATIONS

B.Sc. Engineering (Hons) in Computer Science & Engineering,
University of Moratuwa, Sri Lanka.

Expected Graduation : 2028

Current CGPA : **3.58** (out of 4.00)

Relevant Modules : Data Structures and Algorithms, Digital Design, Java OOP, Computer Architecture, Operating System, Networking, Artificial Intelligence

G.C.E. Advanced Level (2022)

Physical Science Stream (Combined Maths, Physics, Chemistry)

Royal College, Colombo

Grades : **3 A's** (Z-Score : 2.1068) (Also : General English – A , General IT – A , Common General Test - 74)

G.C.E. Ordinary Level (2019)

Royal College, Colombo

Grades : **9 A's** (Including Information & Comm. Technology, Business & Acct. Studies and Oriental Music)

TECHNICAL SKILLS

- Languages :
 - Java
 - C
 - C++
 - Python
 - Dart
 - VHDL
 - Assembly (SMZ32)

- Tools & Technologies :
 - Vivado
 - ModelSim
 - Flutter
 - Android Studio
 - MATLAB
 - Git
 - FastAPI
- Concepts :
 - OOP
 - Multithreading
 - FPGA Design
 - Bit Manipulation
 - Data Structures
 - Networking
 - Artificial Intelligence
 - Operating Systems

RESEARCH AND PROJECTS

- Team project on Optimized 13-bit Nano Processor (Basy3 3)
 - Designed and implemented a nano processor using VHDL with custom instruction decoding, comparator, and ALU logic
 - Extended instruction set to support bitwise operations and comparator functionalities
- Team project on Bus Tracking App (Flutter + Firebase)
 - Developed an animated, user-friendly mobile app to track source buses
 - Integrated a real-time GPS system with Firebase and implemented booking and profile features

RESEARCH INTERESTS

- Cyber Security
 - Network Security
 - Cryptography & Secure Algorithms
 - Ethical Hacking and Penetration Testing

- Game Development
 - Game Mechanics & Physics Simulation
 - AI Behavior Modeling for Non-Player Characters
 - UI/UX Design for Interactive Experiences

WORK EXPERIENCE

- Worked as a Combined Maths Instructor at Sailing Pen, Nugegoda under the guidance of Tutor Ruwan Darshana – **Panel Leader** (2023-2024)
- Worked as a Chemistry Instructor at Rotary, Nugegoda under the guidance of Tutor Amila Dasanayake (2023-2024)

AWARDS AND HONOURS

- SLIoT Challenge 2025 – **Semi-Finalists** (Open Category)
- uMora Maths Competition 2020 (ENTC dept. - UoM) - **Bronze Medal**
- Bhatkhande Sangit Vidyapith, Lucknow (Instrumental-Violin) (2019) - **Visharad**

EXTRA QUALIFICATIONS

- Proficient in Microsoft Office Suite
 - Skilled in MS Word, PowerPoint, and Excel
 - Experienced in creating professional-grade presentations and reports
- Design and Multimedia Proficiency
 - Adobe Photoshop, Canva, and basic video editing tools
- Technical Documentation & Report Writing

OTHER

- **Student Member**, Instituion of Engineers Sri Lanka (IESL) (2025 March – Present)
- **Treasurer**, Mora Athletics Club (2025 February - Present)
- **Visharad**, Bhatkhande Sangit Vidyapith, Lucknow (Instrumental-Violin) (2019-Present)
- **Prefect**, No.01 Primary College, Piliyandala (2012-2013)

PERSONAL INFORMATION

- Full Name : Mapitiyage Don Chethana Yasas Gimhan
- Citizenship : Sri Lankan
- Communication Proficiency
 - Sinhala (excellent fluency)
 - English (excellent fluency)
- Interests and Skills
 - Athletic – Running
 - Cricket
 - Music (Violin)
 - Video gaming
 - Photography and Photo editing