

Md Hridoy Chowdhury

Software Engineer • Computer Science Master's Student

📍 Helsinki, Finland

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Professional Summary

I am a Computer Science Master's student at the University of Helsinki and a Software Engineer Intern at GE HealthCare, working on software for patient monitoring devices. I have professional experience in building production-grade digital applications and a strong foundation in software engineering principles, data structures, and algorithms. My hands-on experience includes C++, Python, Web technologies, and mobile applications used by millions of users. I am highly motivated to build high-quality software and enjoy working in collaborative Agile teams.

Education

M.Sc. in Computer Science — University of Helsinki

Aug 2025 – July 2027

- Current Average Grade: 4.83 / 5.00 ([Transcript](#))
- Awarded 100% scholarship based on academic merits.
- Study Track: Software Engineering (scalable systems, Fullstack-Development, MLOps)
- Master's Thesis Interest: Applying AI/ML across different stages of the SDLC.

B.Sc. in Computer Science and Engineering — Leading University

Jan 2019 – Dec 2022

- CGPA: 3.74 / 4.00 ([Transcript](#))
- Also worked as a Teaching Assistant for the Data Structures & Algorithms Course

Professional Experience

Software Engineer Intern — [GE HealthCare](#)

Summer 2026 • Helsinki, Finland

Patient Care Solutions — Patient Monitoring

- Developing backend and frontend software for patient monitors using C++, Python, and web technologies.
- Delivering robust software that meets medical-industry quality requirements.
- Owning implementation, reviews, testing, and documentation in a multidisciplinary global Agile team.

Technologies: C++, Python, Web Technologies, Git, Linux, Agile

Software Engineer — [Inverse.AI](#)

Nov 2022 – May 2025 • Dhaka, Bangladesh

Products: Photo Editor (iOS, 4.9★), Video Editor (Android, 100k+ users, 4.0★), Video Compressor (iOS, Android, 10M+ users), Noise Reducer (Android, iOS, 10M+ users)

- Developed software features and low-level C++ components for hardware-accelerated media processing using FFMpeg and Metal.
- Increased app revenue by 40% through UIKit-to-SwiftUI migration and performance optimizations.
- Integrated REST APIs, authentication, custom and Firebase Analytics, and production releases.
- Collaborated with backend, UI/UX, and QA teams; conducted reviews and wrote unit tests and documentation.

- Recognized with a [Certificate of Appreciation](#).

Technologies: C++, Swift, SwiftUI, UIKit, Kotlin, KMM; REST APIs, Firebase, Linux, Analytics, Git, Jira

Technical Skills

- **Programming Languages:** C++, Python, JavaScript, TypeScript, Kotlin, Swift, Dart
- **Frontend & UI:** React, HTML, CSS, Tailwind CSS, Material UI
- **Backend & APIs:** Node.js, Express.js, RESTful APIs
- **Software Engineering:** Data Structures & Algorithms, OOP, SOLID principles, Clean Architecture
- **Databases:** MongoDB, MySQL, Firebase (Firestore, Realtime Database)
- **Tools & Platforms:** Linux, Docker, Git, VS Code, CI/CD basics
- **Testing & QA:** Unit and manual testing, bug reporting, debugging, edge-case validation, Firebase Analytics
- **Problem Solving:** Competitive programming (ICPC, LeetCode Top 2.82%), 2000+ problems solved

Competitive Programming

- Programming profiles: [Codeforces](#) (Specialist), [LeetCode](#) (Top 2.82%), [CodeChef](#), [LightOJ](#).
- ICPC Dhaka Regional 2021 participant; IEEEExtreme 15.0 — Country Rank 7, Global Rank 390.
- Champion: Bitfest Intra LU Programming Contest 2022; LU Intra Individual Programming Contest 2022.

Languages

- **English:** Proficient, IELTS Overall Band: 8.0 / 9.0 (CEFR C1) (L 8.0, R 9.0, W 6.5, S 7.5)
- **Finnish:** Finnish 1A (basic proficiency), Average Grade 4.0 / 5.0
- **Bangla:** Native

Thesis & Publication

- **Publication:** [Look After: A Context-Aware Mobile Computing-Based Smart Agent to Manage Personal Events](#), IEEE GCAT 2022, Bangalore · DOI: 10.1109/GCAT55367.2022.9971827
- **Thesis:** [Automated IELTS Writing Evaluation and Handwriting Recognition Using CNN, RNN, and GPT-3 API](#) (2023)

Certifications & Programs

- DevOps with Docker (MOOC) — Containerization fundamentals and deployment workflows
- Entrepreneurship Program — Helsinki Pre-Incubators
- Complete Web Development — Programming Hero

Volunteering Experience

- IEEE Computer Society LU Student Branch — Treasurer & Secretary (Feb 2021 – Mar 2023)
- Awarded Best CS Student Volunteer by IEEE Computer Society Bangladesh Chapter