

# AARYA MUNGLI

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## SUMMARY

Driven AS/A Level student with a strong interdisciplinary focus in computer science, biomedical systems, and healthcare technology. Built advanced platforms such as CryptNet, an encrypted cross-platform chat service with AES-256, TOR integration, and decentralized privacy controls, and MadMax, an AI-powered multilingual education and home assistant. Gained hands-on exposure to hospital systems through a shadowing internship across departments including surgery, cardiology, and paediatrics, and explored bioinformatics during a 7-day immersion in deep phenotyping and AI analysis at Vihzzy Inc. Recognized with the Best Delegate at IIMUN for research and public speaking. Passionate about leveraging emerging technologies to transform patient care and healthcare accessibility.

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## TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript, HTML, CSS
  - **Web Development:** HTML, CSS, VUE.js, REST APIs
  - **Tools & Platforms:** GitHub, TOR, ChatGPT API
  - **Concepts:** AI penetration testing, encryption (AES-256), automation scripting, full-stack deployment
  - **Other:** Advanced computer proficiency, scripting, system design
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## WORK EXPERIENCE

### Intern

### Lakeview Hospital • Belgaum

- Shadowed medical professionals across departments including surgery, cardiology, neurology, and general medicine.
- Gained first-hand insight into super-speciality, speciality, and general hospital functions.

### Intern

### Vihzzy Inc. (Bioinformatics Startup) • Bangalore

- Participated in a 7-day immersion in multi-omics deep phenotyping, AI penetration testing, and AI-sector business analysis.
- Gained knowledge on AI deployment in healthcare research and the future of precision medicine.

### Freelance Developer

### Self-Employed • Remote

- Built custom apps and scripts for individual clients; delivered automation tools, bots, and web components for specific use cases.
  - Experience with 5+ clients across web development to scripting domains
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## MAJOR PROJECTS

### CryptNet

### Encrypted Chat Platform

- Built a cross-platform encrypted chat platform with AES-256 encryption, TOR integration, and decentralized control. Enhanced data security for activists/journalists and governments
- Developed custom security protocols and private room-lock features.
- Accessible via web, mobile, and desktop with a seamless UI/UX.
- Military grade encryption with systematic server reset

### MadMax

### Multilingual Educational & Home Assistant

- Designed Max (educational assistant) and Maddy (home manager) with 100-language support, voice interaction, and offline capability.
- Features include smart scheduling, music playback, WhatsApp/email messaging, and 10-hour battery portability.
- Capable of explaining advanced concepts in simple terms with human-like interaction.

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## EDUCATION

### AS/A Level (Cambridge International)

- **Currently Enrolled**
- Focus: Biology, Chemistry, Physics, Math, Computer Science

### International General Certificate of Secondary Education (IGCSE)

May 2022 - June 2024 • India

- Grade 9 through Grade 10

### Indian Certificate of Secondary Education (ICSE)

Jan 2019 - Feb 2023 • India

- Grade 6 through Grade 8

### Canadian Curriculum

2012 - 2019 • St. Kitts

- Kindergarten through Grade 8

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## AWARDS & ACHIEVEMENTS

### Best Delegate

IIMUN Belagavi (UNODC Committee)

- Recognized for top performance in research, diplomacy, and resolution drafting.

### Finalist | Belagavi - Best Narration

NASA Space Apps Challenge • Educational storytelling

- Created an educational video project aimed at teaching space science to children.

### Spectrum Innovation Award

Indus Altum International School

- Won for developing "MadMax," an AI-powered educational and home assistant.

### National Readathon Winner (2x Consecutively)

Charles Halbert National Library • St. Kitts

- Recognized nationally for excellence in literary engagement.

### Team Debate Competition (Kalotsav) - 1st Place

### Elocution Competition (Kalotsav) - 2nd Place

### Karnataka State Radiant Abacus Championship - 8th Place

## **ADDITIONAL EXPERIENCE & ACTIVITIES**

### **Altair MUN**

**Belagavi**

- Member of organizing team for Belagavi's student-led MUN event.

### **STEAM Member**

**Indus Altum International School**

- Active for 2 years in interdisciplinary science, tech, engineering, arts, and math initiatives.

### **Auxilia One**

**Indus Altum International School**

- Assisted doctors and distributed medicines at charitable village camp.

### **IIMUN Championship**

**Aamby Valley, Maharashtra**

- Participated in UNODC committee with deep research

### **Assisted Technical Department**

**Indus Altum International School**

- Assisted in managing lights, backdrops, and logistics for school functions.

### **Kronos**

**Interschool Competition • Belgaum**

- Interschool public speaking elocution competition focused on current affairs and social themes.

### **IIT Madras Course**

**Remote • India**

- Biomedical Engineering Systems

### **Public Speaking**

**Indus Altum International School, IIMUN, Kronos**

- MUNs, elocutions, debates.

### **Research**

**IIMUN, Indus Altum International School**

- Engaged in policy, tech, and scientific exploration across events

### **Collaboration**

**Remote • In-person**

- Worked with field experts across tech, medical, and academic disciplines.
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