

Aarush Karak

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Summary

A Grade 10 student passionate about computer science, software development, AI systems, and spatial computing, seeking opportunities in AI, software engineering, spatial computing, STEM education, and youth-led technology projects. I build hands-on technical projects using Python, JavaScript, HTML/CSS, Java, C++, Three.js, MediaPipe, REST APIs, and data/ML tools. I bring a strong background in developing innovative software solutions and a keen interest in leveraging technology for practical problem-solving.

Professional Experience

Back End Developer <i>CommunityOne</i>	June 2026 – Present <i>United States</i>
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- Engineered robust, cloud-native backend systems to bridge the information gap between municipal bureaucracy and local residents.
- Designed to centralize fragmented public records and legislative datasets.

Web Developer <i>Chingu</i>	June 2026 – Present <i>Toronto, ON</i>
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- Acted as a core developer to build out robust application features, participating in weekly sprint planning, asynchronous stand-ups, and peer-reviewed Git workflows.
- Focused on creating scalable data architectures, utilizing Python for automated backend data processing pipelines, PostgreSQL for relational database management, and React/Node.js to deliver a responsive, user-facing interface.

Application Developer <i>Hack Club</i>	June 2025 – Present <i>United States</i>
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- Optimized backend synchronization to provide seamless, low-latency data updates across concurrent client sessions.

Web Developer <i>Fiverr</i>	April 2025 – Present <i>United States</i>
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- Delivered over \$5,000 in high-value client projects.
- Bridged the gap between complex engineering and minimalist, intuitive user experiences.

Co-Founder & CEO <i>The Coder Bros</i>	July 2023 – Present <i>United States</i>
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- Build and showcase software projects focused on AI, web development, spatial computing, and practical problem-solving.
- Explore project-based learning, technical writing, and peer-facing coding content.

Parliamentarian <i>Technology Student Association</i>	August 2025 – May 2026 <i>Coppell, TX</i>
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- Helped guide and lead 200+ students to the TSA State Conference 2026 with 30+ state finalists.

Intern <i>Sci-Tech Discovery Center</i>	June 2025 – September 2025 <i>Frisco, TX</i>
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- Educated museum guests, helped operate makerspace activities, and supported hands-on STEM learning experiences.
- Selected through a competitive phone, solo, and group interview process, recognized as the youngest student accepted into the program.
- Built communication, responsibility, and independent work skills while collaborating with adult staff.

Member <i>National Junior Honors Society</i>	May 2024 – May 2025 <i>United States</i>
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- Developed strong communication and teamwork skills through fundraising experience, valuable for creating inspiring and educational experiences.

Education

John Fraser Secondary School
High School

Greater Toronto Area, Canada
2029

Coppell High School
High School

Coppell, TX
2026

Russian School of Mathematics
Mathematics

United States
2029

Garden High School - India
High School

India
2018

Skills

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|-----------------------|--------------------------|---------------------|
| • Chatbot Design | • Three.js | • PostgreSQL |
| • Chatbot Development | • MediaPipe | • React |
| • Arduino IDE | • REST APIs | • Node.js |
| • Python | • Data Analysis | • Git / GitHub |
| • JavaScript | • Machine Learning | • AI Systems |
| • HTML/CSS | • UI/UX Design | • Spatial Computing |
| • Java | • Full-stack Development | |
| • C++ | • Agile Methodologies | |

Languages

- English, Native or bilingual proficiency
- Hindi, Native or bilingual proficiency
- Spanish, Limited working proficiency
- Bengali, Native or bilingual proficiency
- Marathi, Limited working proficiency

Certificates

- AI Fluency Framework & Foundations | Anthropic Inferred | Issued 2026
- Claude Code in Action | Anthropic Inferred | Issued 2026
- Advanced SQL | Kaggle inferred | Issued 2026
- Intro to Machine Learning | Kaggle inferred | Issued 2026
- Career Essentials in GitHub Professional Certificate | GitHub/LinkedIn Learning inferred | Issued 2026
- Artificial Intelligence Fundamentals | IBM inferred | Issued 2026

Projects

HELIOS | 2024-2025

- A browser-based AI operating system with hand-gesture navigation and a 3D spatial interface.

Finance Hub | 2024-2025

- A full-stack financial intelligence platform with live market monitoring and AI-driven prediction exploration.

Knowledge-Globe | 2024-2025

- An interactive 3D encyclopedia.

FixMate | 2024-2025

- An AI-powered home maintenance app.