SRIRANGAN KRISHNASWAMY

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EDUCATION

Skyline High School - Sammamish WA   **Sep 2023 - June 2027**
IB Diploma Candidate │ GPA: 3.99
Relevant Coursework: IB Computer Science, Mechatronics, Sales & Marketing I/II, IB Physics HL, IB Math HL

EXPERIENCE

Build Lead, CAD, Fabrication, Design (FRC 9023 Future Martians)   **Sep 2023 - Present**
- Led mechanical design, CAD, and fabrication for competition robot; improved build reliability by identifying failure points pre-manufacture, helped team reach **world level competition** (**2x times**)
- Coordinated cross-functional subteams to meet fixed competition deadlines while enforcing safety and quality standards

Assistant Senior Patrol Leader, Boy Scouts of America   **Jun 2021 - Present**
- Mentored and led **20+** scouts to First Class rank through structured skills instruction and leadership development
- Previously served as Patrol Leader (4×), Quartermaster (2×), Instructor (2×), and Troop Guide

Chapter Member, SCDC Finalist - Skyline DECA   **Sep 2023 - Present**
- **Finalist** at WA SCDC in Integrated Marketing Campaign (Product)
- Developed full strategic plans for business, finance, and marketing case competitions

Instructor, iCode Sammamish   *Feb 2023 - June 2025*
- Delivered **300+ hours** of instruction to **50+ students** across Python, Java, Web Dev, CAD, and design tools
- Managed instructors and standardized lesson delivery to improve consistency and student outcomes

Project Manager, The Indus Entrepreneurs   *Sep 2024 - June 2025*
- Guided team through ideation, validation, and pitch development for startup concepts
- Emphasized execution, teamwork, and problem-solving under real business constraints
- working with real investors and **receiving LOIs**

Business Intern, iStart Valley   *May 2022 - July 2022*
- Led a startup team in a selective accelerator; earned **3rd place** overall

PROJECTS

808 VST Plugin │ SLM Development │ AI Training Platform
- Built an 808 sub-bass VST/AU plugin in C++ (JUCE) with oscillators and ADSR envelopes.
- Developed RepReady, an AI-assisted training platform with response evaluation and follow-up logic (FastAPI).
- Implemented SLM-driven conversational systems and additional CS projects.

SKILLS

- **Programming**: Python, Java, C++, JavaScript
- **Engineering**: CAD / CAM(Onshape, Fusion 360), Inverse / Forward Kinematics
- **Software**: React, JUCE, Git, AWS
- **Business**: Startup Development, Marketing Strategy, Competitive Analysis

ADDITIONAL INFORMATION

- OSHA 10 Certified
- First WA Volunteering @ Various First WA events + Mentoring First Teams (**250+ Volunteering Hours with Gold Presidential Volunteering Service Award**)
- Participant in Youth Campaign for Local Sammamish City Council Candidate Lin Yang