# Unnati Goyal

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## EDUCATION

**University of California – San Diego**                              Expected Completion:  June 2028
**Bachelor of Science in Computer Science**
- Relevant Course Work: Calculus 1-3, Linear Algebra, **Intro. to Programming and Computational Problem-Solving, Basic Data Structure and OO Design**

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## SKILLS

**Languages:** Java, Python, English, Hindi, Spanish
**Software Tools & Frameworks:** Django, Git/GitHub, NumPy, pandas, Eclipse, Visual Studio Code, Mern Stack**,** React**,** JUnit, Manual, Neural networks, Decision trees, Convolutional networks, Matrix heat maps
**Writing & Documentation:** MS Word, Research & Analysis, API Documentation

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## EXPERIENCE

**Triton Software Engineering**                                          **November 2024 - Current**
**Developer**
- Practicing full-stack development using the **Mern Stack** to build web applications.
- Developing the front end of a non-profit portal to facilitate doctor-user communication for best medical practices. Built key components, including the signup page, popups, and modals, using **React**.

**MusicScore Computer Science Engineering Society (CSES)**                **December 2024 - Current**
**Researcher and Director of Finance**
- Conducting machine learning research on music genre classification.
- Generating spectrograms from audio data and training a **CNN model** to categorize songs into specific genres.
- Identify and manage diverse income streams, including sponsorships, fundraising initiatives, and grant opportunities. Develop financial strategies for effective budget allocation across key group needs such as travel expenses, technological upgrades, and team-building events. Collaborate with leadership to ensure financial sustainability and support long-term research goals.

**Hannovit**                                                            **May 2023 – March 2024**
**Software Engineer Intern**
- **Researched**, **analyzed**, and wrote articles on companies' roles in the community and software used in various fields such as healthcare, education, and more.
- **Documented APIs** using **Django** for a web application facilitating communication between healthcare providers and patients, ensuring clear and detailed technical documentation.
- Developed and practiced writing APIs for the backend using **Django** within the **Visual Studio Code** environment.
- Conducted **software testing** on an e-commerce web application to ensure functionality, usability, and performance.

**University of Washington, Seattle**                                    **November 2021 – March 2023**
**Machine Learning Researcher**
- Implemented **machine learning** algorithms, including neural networks, decision trees, convolutional networks, and matrix heat maps, under the guidance of Professor Shih-Chieh Hsu.
- Participated in SPVCNN research as a technical reader, reviewing previous research and taking notes.
- Attended Discovering AI@UW, an event featuring experts discussing cutting-edge AI methodologies and applications.

**Technology Student Association, North Creek High School**              **September 2020 – June 2024**
**Competitor**
- Collaborated and competed in five events at the state level, gaining STEM and collaboration skills.
- Awards included, Engineering Design Fifth Place Nationals 2024, Prepared Presentation Semi-Finalist Nationals 2024, Engineering Design First Place State 2021, Fashion Design Second Place State 2021, and more.
- Mentored newcomers to the Technology Student Association, assisting them in their preparation for competitions.