

# Arjan Singh Ellingson

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## EDUCATION

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2024 - 2027 B.S. Software Engineering **California Polytechnic State University, San Luis Obispo**

- GPA: 3.57/4.00
- Honors Program Student, Dean's List (x3), President's List Recipient
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Systems Programming, Financial Decision Making, Ethics, Science, and Tech

## WORK EXPERIENCE

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**Intern for the Kontinua Foundation • Full Time / Freelance • Remote** June 2025 - Present

- Worked under direct supervision of Georgia Tech Professor Aaron Hillegass, developing quizzes and assessments for the Kontinua Foundation's open-source educational resources.
- Produced quizzes aligning with Bloom's Taxonomy, targeting levels from recall to higher-order creation.
- Focused quiz questions to measure prerequisite conformity, progression, and alignment with learning objectives.
- Created and formatted assessments for high school students using LaTeX, ensuring precision and consistency.
- Edited and revised textbook chapters, contributing to the instructional quality of published educational resources.
- Wrote Python scripts to parse JSON files, detect prerequisite gaps and duplicate objectives, and support automated content validation, as well as create draft chapter quiz PDFs.
- Automated the compilation of LaTeX source files into 36 PDF workbooks using Python scripts, enabling efficient public distribution of draft resources.

**Lead Sensei for Code Ninjas • Part Time • Chanhassen, MN**

May 2021 - Sept 2024

Instructed 200+ students at a Black Belt Certified Center; connected personally with students while teaching in-depth STEM coding and programming game development concepts in Scratch, JavaScript, and C++.

## LEADERSHIP EXPERIENCE

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**Cal Poly Combat Robotics Club (CPCRC)**

Jan 2025 - Present

As a co-lead of the CPCRC, we promote and advance the field of combat robotics through in-club competitions, workshops, and hands-on projects. I have worked with 20+ students to design team based 150g robots and are working towards 1lb team robots to bring to 10+ regional competitions, such as Southern California Attack Robotics (SCAR), ultimately representing Cal Poly at combat robotics competitions across California.

## SKILLS

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**Programming Languages** Java, Python, LaTeX, SQL, C, C++, Basic JS

**PKM Software** Obsidian, Git, Kanban Workflow, Visual Studio Code, GitHub

**3D Modeling and Printing** Fusion360, Solidworks 2022, Bambu Studio, Orca Slicer, Prusa Slicer