Colin Pannikkat

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EDUCATION

Oregon State University — Corvallis, OR
B.S. Computer Science, B.S. Sustainability, Minors in Economics and Math — *Expected Graduation 2027*

- GPA: 3.95
- Secured **2nd Place** in OSU's Spring '24 Hackathon, **3rd Place** in OSU's Fall '23 Hackathon and **2nd Place** in OSU's Spring '23 Hackathon
- URSA Engage Recipient for Undergraduate Research
- Relevant coursework: Discrete Mathematics, Vector Calculus I, Linear Algebra I, Statistics, Computation and Algorithmic Thinking, Intro to CS II, Data Structures, Computer Architecture & Assembly Language, Analysis of Algorithms, Operating Systems I

EXPERIENCE

Supplemental Instruction Leader — 2023 – Present
Academic Success Center, OSU — *Corvallis, OR*

- Planning and leading 5, 50-minute study tables of 10 students per week for ECON201, Intro to Microeconomics, implementing best practices of collaborative learning, and synthesizing relevant course content based on course lectures.
- Collaborating regularly with course faculty and other SI Leaders about my observations in SI.

Backend Software Engineer Intern — Apr 2024 - Jun 2024
College of Business, OSU — *Corvallis, OR*

- Planned and developed a proof-of-concept interactive chatbot in a team of 6 with the goal of offering class, assignment, and advising support to 500-600 business freshmen yearly.
- Implemented a Retrieval-Augmented Generation (RAG) LLM pipeline using LlamaIndex and ChromaDB for efficient information retrieval.

Undergraduate Researcher — 2022 – 2024
Secure AI Systems Lab (SAIL), OSU — *Corvallis, OR*

- Contributed to meaningful research on security and privacy issues in machine learning under Asst. Prof. Sanghyun Hong in the Secure AI Systems Lab (SAIL).
- Worked on projects regarding evaluation of adversarial perturbations in NLP, adversarial jailbreaking of LLMs, and evaluation of bias detection methods for LLMs.

PROJECTS

Backcast | *Python, Flask, AWS, PyTube, PyDub, JS, 3JS, Git* — 2024

- Built a 24/7 AI-powered radio stream that continuously scrapes music and generates radio jockey content similar to an old radio news station.
- Won BeaverHacks Spring 2024 Hackathon among 58 participants.

Focii | *Chrome Web API, Python, Javascript, HTML/CSS, Node.js, Figma, Git* — 2023

- Collaboratively developed Chrome extension with backend server for enhanced user focus.
- Developed and implemented a simple linear classifier to filter "distracting" websites based on the word embeddings of, and trained the model on a curated dataset of distracting/non-distracting content.
- Won Hack Education Fall 2023 among 95 participants.

EXTRACURRICULARS

President, Skate Club — 2023 – Present
Co-President, Economics Club — 2023 – 2024

SKILLS

Object-Oriented Programming, Dynamic Programming, Python, C/C++, R, PyTorch, NumPy, Transformers, HTML, JavaScript, CSS, Leadership, Facilitation, Communication, Planning, Organization