

JOSHUA NEGREANU

Undergraduate computer science and mathematics student studying artificial intelligence at OSU Honors

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EDUCATION

Oregon State University <i>Honors College</i>	Sep 2021 – Jun 2025 GPA: 4.00/4.00	Catlin Gabel School <i>Upper School</i>	Sep 2017 – Jun 2021 GPA: 4.00/4.00
▪ Pursuing: BS Computer Science (<i>Artificial Intelligence</i>) BS Mathematics (<i>Applied and Computational</i>)		▪ FRC Robotics <i>Robot Fabrication, Videography</i> ▪ CommuniCare <i>Volunteer, Nonprofit Fundraising</i>	

WORK EXPERIENCE

Operating Systems Undergraduate Learning Assistant <i>Supervisor: Benjamin Brewster</i>	Sep 2023 – Present <i>Oregon State University</i>
▪ Hold office hours, tutor students, help debug issues in code. Grade assignments and communicate with professor and students. ▪ Projects written entirely in C and span areas of cryptography, network protocols, multithreading, shells, file I/O, UNIX OS.	
Data Structures Undergraduate Learning Assistant <i>Supervisor: David Hendrix</i>	Apr 2023 – Jun 2023 <i>Oregon State University</i>
▪ Led students through grading demos of code. Required quick adaption to specific student code, assessed level of understanding, mentored students with projects. Met weekly with professor and assistants. Assignments on lists, trees, hash tables, queues, heaps.	
Gen Engineering Undergraduate Learning Assistant <i>Supervisor: Jason Clark</i>	Sep 2022 – Dec 2022 <i>Oregon State University</i>
▪ Prepared and led recitations alongside fellow assistants. Mentored students on industry programs: COMSOL, MATLAB, Simulink. ▪ Maintained communication with professor and coordinated meetings regarding class structure and objectives. Graded assignments.	
Honors College Leadership Circle Volunteer <i>Supervisor: Toni Doolen</i>	Sep 2021 – Jun 2022 <i>Oregon State University</i>
▪ Met weekly with team, devised methods to improve diversity and inclusion in Honors College student acceptance and enrollment. ▪ Led group discussions, wrote detailed team meeting notes. Collectively produced final report with goals and methods for OSU dean.	
High School Senior Computer Science Research Project <i>Supervisor: Andrew Merrill</i>	Sep 2020 – Jun 2021 <i>Catlin Gabel School</i>
▪ Developed prototype app for students. Written in C# using Xamarin .NET allowing for native support on iOS and Android. ▪ User logs in with school account to access Canvas and Veracross via APIs and OAuth2. App displays data in calendar with tabs.	

SKILLS

Coding Languages	Python, C, JavaScript, C++, C#, Java, HTML, SQL, PHP, Node.js
AI Toolkits	NumPy, PyTorch, Matplotlib
Industry Skills	Agile development, Jest unit/UI-integration testing, Cypress end-to-end testing, GitHub Action workflows
Soft Skills	Motivated, open-minded, clear and concise, flexible, detail-oriented, respectful, value diversity
Languages	English, Romanian (<i>limited</i>), Spanish (<i>limited</i>)

RELEVANT COURSEWORK

Machine Learning and Data Mining (CS 434)	Stefan Lee
▪ <i>Logistic regression, SVMs, gradient descent, neural networks, decision trees, ensembles, PCA/SVD, KDE, reinforcement learning</i>	
Analysis of Algorithms (CS 325)	Amir Nayyeri
▪ <i>Dynamic programming, recursion, greedy algorithms, asymptotic running-time analysis, NP-completeness, NP-hard equivalence</i>	
Linear Algebra II (MTH 342)	David Wing
▪ <i>Fundamental subspaces, eigenvalue/vector decomposition, unitaries, self-adjoints, isomorphisms, matrix algebra, inner products</i>	

PERSONAL INTERESTS

Sports	Ultimate Frisbee Club (<i>Oregon State University</i>), Track (<i>Catlin Gabel varsity</i>), Tae Kwon Do (<i>instructor, demo team</i>)
Outdoors	Rock climbing, hiking, mountain biking, snowboarding, kayaking, backpacking, camping
Creative	Piano (<i>9 years, OFMC 3rd Gold Cup, Oregon Duet Competition Winner</i>), guitar, painting, drawing, music production