Brayden Simic

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EDUCATION

University of Central Oklahoma, B.S. in Computer Science, *GPA*: 3.78 / 4.0 *Expected Graduation: May 2026*
Honors: *President's Honor Roll*
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Operating Systems, Programming Languages, Computer Architecture, Linear Algebra

Rose State College, A.S. in Mathematics, *GPA*: 3.83 / 4.0 *Aug 2022 - May 2024*
Honors: *President's Honor Roll; Vice President's Honor Roll (3x recipient)*
Relevant Coursework: C++ Language, Discrete Structures, Calculus III

TECHNICAL SKILLS

Programming Languages: JavaScript, React, CSS, HTML, C++, SQL, Python, C#, Tailwind CSS
Frameworks & Tools: .NET, ASP.NET, SQLite, Firebase, GitHub, TensorFlow, VS code, Visual Studio
Core Skills: Data Structures & Algorithms, Object-Oriented Programming, Debugging, UI/UX Design
Micro-Credentials: Java GUI and Software Design, Raspberry Pi and Cloud Web Interface, Computer Architecture and Assembly Language Programming, Digital Logic Design

PROJECTS

AI Doctor Chatbot | *Node.js, MongoDB, Typescript, React, Tailwind CSS, HTML, OpenAI API*

- Built a medical advice chatbot integrating the **OpenAI API** to deliver intelligent, context-aware responses, with full **frontend** and **backend implementation**.
- Designed **RESTful API endpoints** and **MongoDB schemas** to manage user messages and conversation history.
- Focused on **full-stack web development, AI integration**, and scalable database design**.**

FlickPick: Movie App | *JavaScript, React, CSS, HTML*

- Built a dynamic, client-side movie app using **JavaScript**, consuming a **RESTful API** to display **real-time** movie listings
- Integrated a **persistent state layer** using **backend database** to store user favorites and maintain data across browser sessions
- Implemented **advanced search**, filtering, and categorization features exploring various movie segments

Mask Detection System | *JavaScript, Python, HTML, Firebase, TensorFlow, Raspberry Pi*

- Designed and implemented a **real-time detection system** using a **Raspberry Pi** and a **custom AI trained model** with **Teachable Machine**
- Integrated **TensorFlow** to run model interface locally on the Pi and controlled LEDs based on detection output
- Connected the system to **Firebase** to **sync** detection status with a **web application** built using **JavaScript**
- Enabled **real-time feedback** in mask compliance via both physical indicators and a browser dashboard

WORK EXPERIENCE

HTML & CSS Tutor | *Varsity Tutors* *Aug 2025 – Present*

- Increased student programming proficiency by up to **20%**, as measured by pre- and post-session assessments, by delivering personalized one-on-one lessons covering **Python** fundamentals, functions, and problem-solving techniques
- Boosted student **web development** skills and project completion rates, as measured by coding project evaluation, by teaching **HTML** and **CSS**, responsive web design, and semantic markup through interactive, hands-on exercises.

VOLUNTEER EXPERIENCE

Volunteer Math Tutor | *Self-Initiated* *Aug 2023 – May 2025*

- Provided personalized one-on-one tutoring in mathematics to high school students, focusing on foundational concepts and problem-solving techniques
- Achieved an average **improvement** of **15-20% increase** in student test scores through individualized teaching strategies and progress tracking
- Led tutoring sessions by setting clear learning goals, breaking down complex topics, and applying **critical thinking**, **communication**, and **leadership skills**