

# Brian Tam

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## EDUCATION

<b>Rensselaer Polytechnic Institute</b> <i>Bachelor of Science in Computer Science and Information Technology and Web Science</i> Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Operating Systems, Intro to Algorithms, Principles of Software, Human Computer Interaction	Troy, NY August 2024 - May 2027
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## EXPERIENCE

<b>Undergraduate Programming Mentor</b> <i>Rensselaer Polytechnic Institute</i>	Aug. 2025 – Present Troy, NY
<b>Front-end Web Developer</b> <i>Rensselaer Center for Open Source</i>	Jan. 2025 – May 2025 Troy, NY

**Undergraduate Programming Mentor**  
*Rensselaer Polytechnic Institute*

- Support a CS1 course with 500 students, selected through a competitive process typically reserved for upperclassmen, focusing on Python, recursion, data structures, and algorithmic problem solving.
- Guide students through Python debugging, problem-solving, and applying core data-structure and algorithmic techniques.
- Support weekly lab sessions and hold office hours, providing targeted help on homework and code optimization.

**Front-end Web Developer**  
*Rensselaer Center for Open Source*

- Built and styled front-end components of the HackRPI 2025 website using React, Tailwind CSS, Node.js, and TypeScript.
- Collaborated with a 19-member development team using GitHub for version control, peer code reviews, and agile methodologies.
- Improved the user experience by implementing smooth animations for interactive elements with React, resulting in smoother performance on low-end devices.

## PROJECTS

<b>ByteBite – Best Data Science Hack, HackRPI 2025</b>   <i>React, JavaScript, Node.js, GitHub, Render</i>	Nov. 2025
<ul style="list-style-type: none"><li>Developed an AI-powered dining recommendation platform that normalized JSON feeds from Sodexo, applied dietary preferences, and generated real-time rankings with Google Gemini.</li><li>Led front-end development using modular React components to deliver a responsive, production-quality user experience in under 24 hours.</li><li>Built a schema-inference parser that resolved unpredictable key-value structures across 20+ menu formats and integrated an AI chatbot powered by Google Gemini.</li></ul>	
<b>The Thread – RCOS Project</b>   <i>TypeScript, React, MongoDB, AWS S3, Tailwind CSS</i>	Aug. 2025 – Present
<ul style="list-style-type: none"><li>Help build the platform from the ground up as part of the founding development team for <i>The Thread</i>, RPI's new editorial magazine website.</li><li>Implement core React components that power live content updates and integrate them with a MongoDB + AWS S3 backend for dynamic content rendering and real-time updates.</li><li>Collaborate with a 6-person team using GitHub workflows, agile sprint planning, and code reviews to ship milestone features.</li></ul>	

**ByteBite – Best Data Science Hack, HackRPI 2025** | *React, JavaScript, Node.js, GitHub, Render*

- Developed an AI-powered dining recommendation platform that normalized JSON feeds from Sodexo, applied dietary preferences, and generated real-time rankings with Google Gemini.
- Led front-end development using modular React components to deliver a responsive, production-quality user experience in under 24 hours.
- Built a schema-inference parser that resolved unpredictable key-value structures across 20+ menu formats and integrated an AI chatbot powered by Google Gemini.

**The Thread – RCOS Project** | *TypeScript, React, MongoDB, AWS S3, Tailwind CSS*

- Help build the platform from the ground up as part of the founding development team for *The Thread*, RPI's new editorial magazine website.
- Implement core React components that power live content updates and integrate them with a MongoDB + AWS S3 backend for dynamic content rendering and real-time updates.
- Collaborate with a 6-person team using GitHub workflows, agile sprint planning, and code reviews to ship milestone features.

**Movie Recommendation App** | *React, TypeScript, Node.js, MongoDB, Axios, Vercel*

- Build a full-stack movie discovery platform integrating the TMDB REST API for real-time data on trending titles, cast, and streaming providers.
- Design an interactive, responsive UI using React + Tailwind, increasing engagement by 40% through trailers, previews, and watchlist flows.
- Engineered a scalable Node.js + MongoDB backend to support personalized recommendations and watchlists.

## TECHNICAL SKILLS

- Languages:** Java, Python, C/C++, JavaScript, TypeScript, MIPS, x86 Assembly
- Web & Frameworks:** React, Next.js, Node.js, Express, Tailwind CSS, HTML/CSS
- Databases & Cloud:** MongoDB, AWS S3, NoSQL, Local Caching, Docker
- Developer Tools:** Git, GitHub, VS Code, Linux/Unix, Bash, Figma, Vercel, Netlify, Agile Workflows