Bijou Raj
SOFTWARE ENGINEER

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EDUCATION

California Polytechnic University, Pomona   Graduated May 2025
B.S. Computer Science, Minor Data Science, Honors: Summa Cum Laude
- Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Object-Oriented Programming, Software Engineering, Big Data Analysis
- GPA: 3.94

Moorpark College   May 2023
A.S. Computer Science
- Relevant Coursework: Discrete Structures, Computer Organization and Assembly, Linear Algebra
- GPA: 3.89

Technical Skills
- **Languages:** Python • Java • C# • C++ • TypeScript • SQL
- **Web/Tools:** React • Next.js • Firebase • Tailwind CSS • Git • Node.js
- **Other:** Unity • Blender

PROJECTS

Blog Creator
- Developed full-stack blog publishing platform using Next.js and TypeScript
- Integrated Kinde Authentication and Prisma ORM for secure, scalable content management
- Designed responsive UI with Tailwind CSS and optimized performance with server-side rendering

LunarByte
- Designed and modeled 3D game assets using Blender for space-themed cooking/delivery game
- Contributed to level design, asset integration, and event-driven logic using Unity and C#
- Managed version control and task coordination using Git and GitHub

Minty Exterior
- Developed location-based service discovery platorm using React, Next.js, and TypeScript
- Integrated Firebase Authentication with support for credential and OTP-based login
- Built responsive, mobile-freindly interface using Tailwind CSS
- Implemented tag-based filtering and map-snapping features to enhance usability

BRIC App
- Built university gym portal, securely saving user credentials to database via Node.js and Railway
- Designed multiple user flows and pages using JavaScript, HTML, and custom UI styling
- Focused on process automation and system reliability for high-volume student logins

EXPERIENCE

CubeSTEP   Feb 2024 - May 2025
Ground Station and Mission Control Team Lead
- Led ground station design automation and communication protocol design for CubeSAT launch
- Collaborated cross-functionally with mission and technical teams to meet aerospace standards
- Wrote mission-critical documentation and managed FCC licensing for satellite uplink/downlink protocols

Target   Jul 2019 - Aug 2023
Guest Service Advocate
- Delivered customer support, processed inventory/returns, and trained new team members