

EXPERIENCE

- **Software Engineering Intern - Cloud** May 2024 - Aug. 2024
Quicken Inc Menlo Park, CA
 - Engineer on Quicken Cloud Services team providing cloud infrastructure and deployment for all Quicken products
 - Implemented ubiquitous encryption for all REST services at Quicken; Enabled end to end encryption on rollout of new product Quicken Lifehub which required more robust security due to handling of sensitive documents
 - Designed mTLS solution using cloud-native tools, addressing challenges in certificate management, secure key storage, and cross-server authentication.
- **Machine Learning Researcher** Jun. 2023 - Present
Berkeley AI Research Lab (BAIR) UC Berkeley Berkeley, CA
 - Implemented Neural Radiance Field (NeRF) Tree Reconstruction Project using Generative AI and Computer Vision to make 3-D models of forests for potential firefighting use; Designed algorithm to automatically detect diameter of trees using NeRF projections on Segment Anything Model (SAM 2)
 - [1] Neural Tree Reconstruction for the Open Forest Observatory. Marissa Ramirez de Chanlatte, **Arjun Rewari**, Trevor Darrell, Derek J. N. Young. Paper in ICLR Workshop: Tackling Climate Change with ML, 2024
 - [2] Enhancing Photorealism in 3D Forest Models. **Arjun Rewari**, Marissa Ramirez de Chanlatte, Trevor Darrell, Derek J. N. Young. Poster presentation at BERC Energy Summit Climate Showcase, 2023
- **Software Engineering Intern - NLP** Jun. 2022 – Sep. 2022
Slang Labs Bengaluru, Karnataka, India
 - Voice assistant for existing apps to serve a multilingual community, allowing novice users to converse in their local language, extending the reach of the apps
 - Deployed various phonetic similarity algorithms engineered for Indic languages to improve recognition in the app
 - Built standard evaluation framework that was used across teams to assess multiple phonetic similarity algorithms
 - Implemented algorithms to process large amounts of textual data, improving data parsing workflows

EDUCATION

- **University of California, Berkeley** Berkeley, CA
Bachelor of Arts in Computer Science Aug. 2023 – May. 2026
 - **Relevant Coursework:** Data Structures, Discrete Math and Probability Theory, Computer Architecture, Efficient Algorithms, Database Systems, Machine Learning, Deep Learning
 - **Organizations:** BAIR Lab, Game Development Club, IvyCode (CS Club), CHAOS (Hiking Club), BTA
- **Foothill College** Los Altos, CA
Associate of Science in Computer Science; High Honors; Deans List Sep. 2021 – June. 2023
 - **Relevant Coursework:** DSA in C++, Java, Python; Matlab; Discrete Math; Calculus; Linear Algebra
 - **Organizations:** Senate Board (Senator), Associated Students of Foothill College, Engineering Club, CS Club
- **Stanford ICME:** Data Science Certificate; Courses in Deep Learning, Machine Learning, R, Python

PROJECTS

- **AI Robotic Arm:** 3D-Printed, 3 jointed arm that mimics hand movements through Computer Vision; Recognizes voice commands like “Pick up the red coke”
- **Self-Driving Car:** CNC-Milled Go Kart that follows a pre-determined route
- **New Jeans 3D:** 2D maze game that is projected onto 3D using raycasting

SKILLS

- **Languages:** Advanced: C++, Java, Python, Matlab; Proficient: HTML, CSS, Javascript, Scheme, SQL, C, RISC-V
- **Libraries/Frameworks:** Nerfstudio, OpenCV, MediaPipe, NLTK, SDFstudio, Matplotlib, Numpy, Pandas, ReactJS, Spring Boot, NoSQL, MySQL, Bouncy Castle
- **Technologies:** Android Studio, API Development(Twitter, Google Maps, REST), AWS (EC2, PCA, KMS), Postman, Splunk, Apache Tomcat, Git, Bitbucket, Integration Testing, Slf4J, Eureka
- **Soft Skills:** Problem Solving, Leadership, Customer Service, Advising

INTERESTS

- **Interests:** Hiking; golf; sustainability; Breaking Bad; camping; Reddit; woodworking; reading; Eagle Scout