

Nicholas Le

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EDUCATION

University of California, San Diego
B.S. in Computer Engineering - 3.8 GPA

San Diego, CA
Aug. 2024 – June 2027 (expected)

PROJECTS

- RoboSub Team Website** | *React, JavaScript, HTML/CSS, MongoDB, Figma, Git* Jan. 2025 – Present
- Building a full-stack platform for UCSD RoboSub with dynamic content management, user authentication, and role-based access control
 - Designed high-fidelity Figma prototypes and implemented pixel-perfect React components for responsive UI across devices
 - Architected RESTful API endpoints using Express.js and MongoDB to serve real-time project logs, event calendars, and member directories
 - Implemented CI/CD pipelines via GitHub Actions for automated testing, linting, and deployment to Netlify, halving release cycles
- Date Tracker iOS App** | *Swift, SwiftUI, Firebase Firestore* Mar. 2025 – Apr. 2025
- Engineered an offline-capable Firestore data layer with real-time conflict resolution, so paired users always see each other's updates instantly.
 - Built custom SwiftUI calendar & timeline components with adaptive light/dark themes and subtle haptic cues for a more immersive feel.
 - Streamlined user onboarding with one-tap pairing via Firebase Auth & Dynamic Links, handling invites, permissions, and edge-case errors gracefully.
 - Powered dynamic Lock-Screen widgets and in-app reminders using Firebase Cloud Messaging + Cloud Functions
- Hookpoint Collaboration – Video Game** | *Unity, C#, Git* Aug. 2023 – Mar. 2024
- Developed a dynamic hooking mechanic with C# coroutines and physics joints, enabling realistic object interactions under varying conditions
 - Optimized NavMesh generation and custom A* heuristics to improve AI pathfinding efficiency
 - Coordinated iterative playtesting sessions, gathered user feedback, and refined gameplay balance and UI elements accordingly

LEADERSHIP AND WORK EXPERIENCE

- Developer and Assistant Instructor** Mar. 2022 – Feb. 2024
Goose Creek Golf Academy *Jurupa Valley, CA*
- Deployed an iOS app in SwiftUI that authenticates users via Firebase Auth, fetches swing metrics stored in Firestore, and displays interactive charts to track performance trends and reduce manual data lookup
 - Leveraged Trackman launch monitor and wearable sensor analytics to deliver biomechanical insights, improving student swing consistency
 - Designed and maintained a performance tracking database, generating weekly progress reports and actionable coaching plans
- Vice President** May 2019 – July 2024
Centennial High School Coding Club *Corona, CA*
- Led a committee to plan and host monthly hackathons and workshops, growing active membership from 20 to 40 students
 - Established and managed the club's GitHub organization, onboarding new members to version control and collaborative workflows
 - Launched a mentorship program pairing experienced coders with beginners, increasing beginner retention

SKILLS AND COURSEWORK

Languages: Java, C, JavaScript, HTML/CSS, Swift
Frameworks/Libraries: React, Node.js, SwiftUI, MongoDB, Firebase
Certifications: Pearson IT Specialist, IC3 Digital Literacy, FCC Responsive Web Design, Social Media for Business
Relevant Courses: Accelerated Intro to Programming (CSE 11), Data Structures & OOP (CSE 12), Discrete Mathematics—proofs & combinatorics (CSE 20), Systems Programming & Tools (CSE 29), Computer Organization & Architecture (CSE 30)