NILOY MEHARCHANDANI

+1 (310) 658-0308 | niloym@ucla.edu | Los Angeles, CA | meharchandani.com

EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA Expected June 2028
Bachelor of Science, Computer Science and Engineering (CSE)
- GPA: 3.976/4.0 | Dean's Honors List (2024-2025)
- Scholarships: Boeing (2025-2026), Samueli Foundation Engineering (2025-2026), Norman Yeung (2024-2025)
- Relevant Coursework: Introduction to Programming (C++), Data Structures and Algorithms (C++), Software Construction (Python, JavaScript, Node.js, React, Git, Bash), Calculus II, Multivariable Calculus, Discrete Structures

SKILLS

- C++, Python, Swift, JavaScript, React, Next, Node, MongoDB, SwiftUI, Firebase, AWS S3, Git, Docker, FastAPI, ML and Deep Learning

EXPERIENCE

UCLA Residential Life | *Resident Assistant* September 2025 - Present
- Lead community development and student engagement for 50+ residents

DTBEU (Texpro Solutions sp. z o.o.) | *Software Engineering Intern* June 2025 - July 2025
- Led two end-to-end technical projects under the MD, delivering full-stack and automation solutions for business-critical operations
- Finance Dashboard: Built FastAPI/PostgreSQL backend with OCR (Google Document AI), LLM (Google Gemini), Celery workers, and AWS S3; developed React/TypeScript frontend for analytics and XLSX/PDF/CSV exports
- Automated POD Web Scraper: Created Python/Selenium desktop app (PySide6) for multi-courier POD retrieval, reducing manual work from 8 hours to 15 minutes; implemented multi-threading, secure credential storage, and batch processing (500+ docs)

Panache Fashion Sp. z o.o. | *Intern* June 2024 - September 2024
- Built company website (panachefashion.pl) using React.js and CSS, improving web traffic by 60%
- Optimized invoicing and inventory systems to support smoother order processing and tracking

PROJECTS

Ledger | *E2EE Peer-to-Peer Ledger App* August 2025
- Built end-to-end encrypted iOS ledger (Swift, SwiftUI, CryptoKit, Firebase) with per-device key management, QR-based device linking, and approval-based transaction workflows synced across devices
- Integrated Siri Shortcuts for quick transaction entry and prepared for UPI payment integration

TextileSaaS | *Founder and Developer* June 2025 - Present
- Self-initiated multi-tenant SaaS platform with ERP, CRM, inventory, analytics tools for SME's, initially targeting textile industry
- Building a production-grade web and iOS app using NestJS, Prisma, PostgreSQL, SwiftUI, and S3/CloudFront for secure operations
- Implemented client-side image processing with presigned S3 uploads and CDN delivery, with offline-first caching using SwiftData
- Conducting market research and client validation to optimize product-market fit and monetization strategy

Meal Plan Generator | *Meal Optimization Platform* June 2025
- Developed full-stack web application to generate optimized meal plans using real-time data from UCLA Dining Halls
- Implemented a greedy algorithm to customize meal plans based on individual dietary preferences and nutritional goals

CollegeCounsel | *AI-Powered College Counseling Platform* May 2025
- Built a full-stack college counseling platform with Next.js, Node/Express, MongoDB, and Firebase Auth for college search, application tracking, and AI-powered essay feedback
- Integrated QS data, AWS S3, and RBAC for secure resume parsing, transcript building, cutting application processing time by 30%
- Deployed scalable REST APIs with caching and PM2, enhancing user experience for 5,000+ college database

SnapSolve | *iOS App (LA Hacks 2025)* April 2025
- Built iOS app (SwiftUI, Node.js, MongoDB) to report infrastructure issues, integrating Gemini API for image-based issue detection

NewsCrumbs | *iOS App (App Store Published)* July 2024
- Developed using SwiftUI, Node.js, and MongoDB to summarize top 5 news stories daily

RESEARCH AND PUBLICATIONS

"Mathematics and Function Art" | *AACE Journal of Computers in Mathematics & Science Teaching* January 2024
- Written under guidance of IIT Bombay Professor Emeritus Inder K. Rana

EXTRACURRICULARS AND LEADERSHIP

Bruin Finance Society | *Intern* March 2025 - Present
- Supported planning and logistics for BFS workshops, events, and speaker sessions on fintech

Code4Change | *Founder and President* October 2022 - June 2024
- Established community service organization teaching digital literacy to underprivileged communities in India

TEDxYouth@SISmumbai | *TEDx Speaker* April 2024
- Delivered a TEDx Talk on personal journey of "Breaking the Walls of Silence"