

RONGABRIEL MANINANG

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EDUCATION

The University of Texas at Austin Bachelor of Science, Mechanical Engineering May 2024
Dual Track: Industrial Management, Nuclear & Radiation Engineering Track
Cumulative GPA: 3.82/4.00; SAT: 1520 (800 Math, 720 Reading & Writing)

Academic Awards: College Scholar Recognition – Cockrell School of Engineering, 2nd Place in Drone Design Competition

EXPERIENCE

Capital One – Software Engineer; Richmond, Virginia February 2025 - Present

- Automated regional isolation failover system for commercial identity/authentication services, reducing RTO from 2 hours to 2 seconds
- Pioneered a context-aware BDD unit testing framework using Claude Code, achieving organization-wide adoption across 10+ teams
- Architected and maintained backend security authentication flows (Face/Touch ID, OTP, MFA) for business critical commercial services
- Led the infrastructure migration of legacy microservices to GitHub Enterprise Cloud to enable business with AI-assisted development

Qualtrics – Product Specialist; Provo, UT September 2024 - January 2025

- Resolved 250+ API and integration issues, deepening technical fluency in JavaScript, HTML, and CSS
- Diagnosed and escalated bugs with resolutions and engineering teams, decreasing average resolution time by 25%
- Synthesized Fortune 500 client feedback into feature insights adopted in 2 product updates, improving usability scores by 15%

West Monroe – Energy & Utilities Consulting Intern; New York, NY May 2023 - August 2023

- Conducted U.S. energy efficiency regulatory buy-side due diligence to market size a proposed \$150M energy software acquisition
- Developed a hybrid rate case and federal incentive model that led to a deal negotiation, decreasing target's purchase price by 12%
- Integrated real-time analytics into a digital product for a F500 energy company, reducing client's supply chain-related costs by 15%

Flexie (Techstars '22) – Product Manager Extern; Austin, TX January 2023 - May 2023

- Led product strategy & development for a digital product, overseeing the entire lifecycle, increasing user satisfaction by 18%
- Facilitated research and collaborated with stakeholders to create PRD and roadmap (Miro), streamlining project timeline by 12.5%
- Created task & user flows, wireframes, and UI mockups (Figma), minimizing MVP development time for engineering team by 33%

PROJECTS

Multi-Agentic Course: Google Production-Ready AI Series in NYC – Google Cloud AI Labs, St. John's Terminal, NYC March 2026

- Engineered autonomous multi-agent systems by implementing the Agent-to-Agent (A2A) protocol for standardized horizontal handoffs
- Optimized agentic workflows for reliability and observability, used structured state management and "zero-trust" tool-access patterns
- Developed scalable reasoning loops using Gemini's multimodal capabilities, enabling agents to synchronize and process real-time data

Redesign of Samsung Semiconductor's Manufacturing Tool – Senior Design Capstone, UT Austin August 2023 - December 2023

- Redesigned an assembly in the CVD process to improve silicon wafer production, potentially decreasing maintenance times by 50%
- Conducted FEA analysis in SolidWorks to identify potential failure points and designed a solution to withstand 333x predicted load

Austin Residential Real Estate Hackathon – Data Science for Engineers, UT Austin March 2023 - April 2023

- Modeled the closing price of houses in Python using a set of housing descriptions with 90% accuracy from 70K listings since 2015
- Implemented machine learning algorithms to sort and analyze Austin housing datasets, reducing data preprocessing time by 20%
- Pitched the top 10 projected MLS areas in Austin to stakeholders in the real estate market, resulting in 9th place out of 21 teams

LEADERSHIP EXPERIENCE AND ACTIVITIES

Capital One Technology Development Program – Diversity Inclusion and Belonging Lead; Richmond, VA November 2025 - Present

- Served as the DIB Committee Lead for the Technology Development Program (TDP) to build community for various cultures across geos
- Built an internal web platform to drive cultural engagement and hosting large-scale events for over 100+ multi-disciplinary engineers

Texas UMBRA – Consultant, Program Manager, Outreach Director; Austin, TX September 2021 - Present

1/10 students (<5% acceptance) selected for McCombs-sponsored research organization that consults with startups and Fortune 500s

- Strategized growth for Wee's Cozy Kitchen to increase sales by 700%+, leading to NYT's "America's Best Restaurants 2023"
- Managed a team of 10 people to devise 5 specialized growth strategies for Bird Scooters, increasing UT market share by 20% in Q2
- Sourced 4 client engagements ranging from venture-backed startups, local non-profits & restaurants, and national companies

System Integration & Design Informatics Lab – Undergraduate Researcher; Austin, TX January 2023 - May 2023

- Quantified design variance of 66% between irrational and rational agents using Bayesian optimization & behavioral data in Python
- Identified 3 potential applications for multi-agent reinforcement learning across manufacturing, defense, and drone design

HONORS AND AWARDS

- Capital One Developer Academy – Selected as Top 10% of Developers with "Above Strong" Recommendation August 2025
- Qualtrics – Selected as 1st Place Globally for 5 out of 5 Star Client Satisfaction Scores for Product Specialists November 2024

ADDITIONAL INFORMATION

Technical Skills: Python, Java, JavaScript, Go, C++, React.js, LaTeX, MATLAB, SolidWorks (CAD), AutoCAD, Figma

Interests: GS Warriors, Uniqlo, GM in Marvel Rivals, Karaoke, Calisthenics, Korean BBQ, Breaking Bad, Chess, Live Music, Acting, Swimming

Work Eligibility: U.S. Citizen, Eligible to work in the U.S. with no restrictions