

Anjaney C Mahajan

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Summary

I am a dynamic and driven Software Engineer with a comprehensive educational background in Computer Engineering and Software Engineering with Business. I have demonstrated leadership experiences in varied projects, ranging from conservation to aviation, whilst adapting to new technologies to solve diverse problems with a keen interest in developing human-centric full-stack applications. I am actively seeking graduate and subsequent career opportunities in the Australian software engineering sector.

Education

The University of Melbourne

Enrolled: Feb 2021 — Expected: Dec 2023

M.S. in Software Engineering with Business

- **Relevant Course Work:** Masters Software Engineering Project, Software Design and Architecture, Web Information Technologies, Distributed Systems, Software Processes and Management, Software Requirements Analysis, Marketing Management for Engineers, Economic Analysis for Engineers, Strategy Execution for Engineers
- **Capstone Project:** Gating tool developed for a global Airport Consultancy firm, effectively scheduled flights using complex inputs and presented results in a user-friendly manner, meeting the client's specifications.

North Carolina State University

Enrolled: August 2016 — Completed: May 2020

B.S. in Computer Engineering

Honors: Magna Cum Laude

- **Relevant Course Work:** Foundation of Graphics, Practical Engineering Prototyping, Embedded System Design, Embedded Systems, Microelectronics, Design of Complex Digital Systems, Machine Learning, Environmental Ethics.
- **Capstone Project:** Led a team of five computer and electrical engineers to design an IoT-enabled device for the North Carolina Wildlife Commission, aiding in the conservation of sea turtle nests. This remote-deployable device, complemented by a cloud-integrated web application, empowered volunteers to enhance the protection and monitoring of turtle nests, thereby boosting conservation efforts.

Work Experience

Choppies Botswana

Intern Software Developer

Gaborone, Botswana

Dec 2021 - Feb 2022

- Developed a Rebate Management Application for Choppies Botswana's Accounting, integrating it with their existing Microsoft SQL Server database systems.
- Conducted in-depth requirement analysis sessions with key stakeholders to ensure the application met all business requirements.
- Designed a user-friendly interface, prioritizing ease-of-use and efficiency for end-users.
- Provided a unified solution replaced several disparate systems, streamlining the process of generating rebates for the company's suppliers.
- **Utilized Technologies:** Django Framework, Python, HTML, and CSS.

NC State Engineering Village,

Engineering Mentor

Raleigh, North Carolina

Aug 2017 - May 2018

- Fostered and reinforced a comprehensive experience for 50 First Year Students that blends the co-curricular and academic pursuits.
- Served as a strong role model, whilst maintaining a good academic standing and social behaviour.
- Promoted a culture of inclusivity and diversity, ensuring every student felt welcomed and valued in the Engineering Village.
- Organized events and team-building activities to foster a sense of community and collaboration among first-year students that complemented their academics.
- Shared personal experiences and insights from my academic journey, offering students relatable advice and strategies for success.

PROJECTS

Airbiz Gating Tool

- Led a diverse team of 9 software engineers, each bringing unique experiences and backgrounds, to develop a smart gating tool for a global airport consultancy firm.
- Focused on creating a human-centric design that effectively scheduled flights based on intricate inputs.
- Ensured the final product was not only technically sound but also user-friendly, aligning with the complex client specifications.
- Demonstrated leadership by guiding the frontend design team, emphasizing agile practices throughout the development process.
- **Technologies:** Java Vert.x, React, MongoDB, Figma for Design

Diabetes @ Home

- Conceptualized and developed "Diabetes @ Home", a comprehensive full-stack health application tailored to help patients manage their diabetes within their homes.
- The application empowers patients to consistently log essential health data, which is then made accessible for remote monitoring by their respective clinicians.
- Led the complete development lifecycle of the application with three inexperienced developers, from its initial ideation to its final deployment.
- Conducted rigorous user testing sessions, gathering invaluable feedback which was then incorporated to refine and elevate the application's user experience.
- **Technologies:** MongoDB, Node.js, Chart.js, Handlebars.js, Figma for Design

acmahaja.com

- Developed and launched "acmahaja.com" as a personal portfolio platform to exhibit my web development projects, skills, and notable achievements.
- Continually maintained and updated the website for over three years, ensuring content relevancy and using the latest web technologies and trending designs.
- **Technologies:** Next.js, Typescript, MongoDB, Google Cloud

Technical Skills

- **Programming & Technologies:** C, Java, JavaScript, Typescript, React, NodeJS, Python, Django, MySQL, MongoDB, Google Cloud.
- **Technical Skills:** Sensor Interfacing, Soldering, PCB Design & Testing, Microelectronics, Embedded System Programming, Hands-on Prototyping, 2D & 3D Modeling (AutoCAD), 3D Printing.
- **Soft Skills:** Communication with Non-Technical Stakeholders, Critical Analysis, Team Coordination, Leadership, Problem-Solving, Precision, Mentoring, Collaborating in Diverse Settings.
- **Language Proficiency:** Fluent in English, Conversational Hindi, and Conversational Setswana.

Awards and Professional Development

- Participation in Unimelb Endeavour Exhibition October 2023
- Participation in inaugural HackMelbourne Hackathon April 2021
- Second in ECE 485 Senior Design Competition May 2018
- Volunteer for NC State Fall Engineering Career Fair October 2018
- Engineering Application Club, founding member August 2018 — May 2020

Clubs and Organizations

- Soccer Appreciation Society, Community Moderator, Graphics Designer, and was responsible for Merchandise Acquisition.
- Hack Melbourne, Active Member, 2021
- IEEE, Active Member, 2018 - Present
- Engineering Application Club, Electronics team lead, 2018
- Mathematics Tutoring, Head Tutor, 2014-2016
- Advanced & Beginners Programming Club, President, 2012-2016
- Squash, Coach & Team Captain, 2010-2016

References

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