

# Anjaney C MAHAJAN

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## SUMMARY

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Dynamic and driven Software Engineer with a focus on designing and developing human-centric full-stack applications. Proficient in languages such as Java, JavaScript, Python, and various technologies including React, Node.js, Django, and MongoDB. Experienced in leading the development of complex projects, from concept to deployment, ranging from conservation to aviation. Demonstrated leadership in managing teams and implementing agile development practices. Passionate about creating user-friendly interfaces and embracing new technologies to solve complex problems.

## EDUCATION

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### M.Eng. in Software Engineering with Business The University of Melbourne

Feb 2021 - Dec 2023

- **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
- Led a team of 9 software engineers in developing a Gating Tool for a global Airport Consultancy firm, optimizing flight scheduling with agile practices. Ensured a human-centric design approach for user-friendly interfaces. Created front-end design to meet client requirements.
- **Technologies:** Java Vert.x, React, MongoDB, Figma
- **Awards:** Winner of the Airwallex Customer Centric Innovation Award (Oct 2023) and the Computing and Information Systems Discipline Award (Oct 2023)
- **WAM:** 71.174 (Second Class Honours)

### B.S. in Computer Engineering North Carolina State University

Aug 2016 - May 2020

- **Relevant Course Work:** Machine Learning, Practical Engineering Prototyping, Communication for Engineering and Technology, Engineering Profession for Computer Engineers, Object Oriented Programming For ECE, Discrete Mathematics for CSC, Introduction to Computer Systems, Public Speaking, Foundation of Graphics
- Led a team of five engineers to design an IoT-enabled device for the North Carolina Wildlife Commission, enhancing sea turtle nest conservation. Conceptualized and developed project based on user requirements and environmental restrictions, collaborating on real-time monitoring, cloud-integrated web application development, and extensive testing. **Technologies:** Raspberry Pi, IoT sensors, Python, Django, HTML, CSS, JavaScript, Google Cloud Platform, TensorFlow, Firebase
- **GPA:** 3.563 (Magna Cum Laude)
- **Awards:** ECE 485 Senior Design Competition (Second Place, May 2018)

## EXPERIENCE

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### Intern Software Developer

Dec 2021 - Feb 2022

Choppies, Gaborone, Botswana

- Developed a Rebate Management Application for Choppies Botswana's Accounting, integrating with an existing Microsoft SQL Server database systems
- Conducted in-depth requirement analysis & user acceptance testing with key stakeholders
- Designed a user-friendly interface prioritizing ease-of-use and efficiency for end-users
- Implemented a cohesive solution that replaced multiple disparate systems, streamlining the process of generating rebates for the company's suppliers
- **Technologies:** Django Framework, Python, HTML, and CSS

### Engineering Mentor

Aug 2017 – May 2018

NC State Engineering Village, Raleigh, North Carolina

- Fostered and reinforced a comprehensive experience for 50 First Year Students which blends 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
- Shared personal experiences and insights from academic journey, offering students relatable advice and strategies for success

## PROJECTS

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### 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

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- **Programming Languages:** Java, JavaScript, Typescript, Python
- **Web Development:** HTML, CSS, Node.js, React, Next.js, Svelte, Django, Java Vert.x, Tailwind CSS, Bootstrap
- **Databases:** PostgreSQL, MySQL, MongoDB, Firebase
- **Version Control:** Git, GitHub.
- **Tools & Methodologies:** Agile Development, Scrum, Kanban.
- **Software:** Visual Studio Code, Vim, Confluence, Jira, Notion, Microsoft Office Suite
- **Soft Skills:** Communication, Critical Analysis, Team Coordination, Leadership, Problem-Solving, Mentoring, Collaboration
- **Language Proficiency:** Fluent in English, Conversational in Hindi and Setswana

## CLUBS AND INTERESTS

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- Hack Melbourne, Member , 2021 - 2023
- IEEE, Active Member, 2018 – Present
- CISSA, Member 2021-2023
- Soccer Appreciation Society, Social Media Manager, Graphics Designer, Merchandise, 2022-2023.
- Engineering Application Club, Electronics team lead, 2018
- NC State Fall Engineering Career Fair, Oct 2018
- Advanced & Beginners Programming Club, President, 2012-2016
- Mathematics Tutoring, Head Tutor, 2014-2016
- Squash, Coach & Team Captain, 2010-2016

## REFEREES

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### Geoffrey Jenkins

Capstone Supervisor, University of Melbourne  
geoffj54@gmail.com

### Dr. Venkat Venkatachalam

Mentor, Queensland University of Technology  
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