Ibrahim Chhaya

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EDUCATION

Carnegie Mellon University — Pittsburgh, USA
MSc Information Technology Privacy Engineering — *Aug 2023 – Dec 2024*

- Privacy Engineering Masters Fellow 2023
- Coursework: Privacy Policy, Law & Technology; AI Governance; Information Security, Privacy & Policy; Product Management Essentials, Law of Computer Technology; Usable Privacy & Security; Engineering Privacy in Software
- Exec Board Member - Carnegie AI Safety Initiative

University of Johannesburg — Johannesburg, ZA
BSc Honours Computer Science and Informatics — *Feb 2018 – Dec 2022*

- Top Informatics Achiever every year, Top 5 Honours Project, Top 2 Third-Year Project and Best Website, Top Second-year Project
- Top 10 Hackathon Project in Gauteng NEMISA 2021
- National Research Foundation Scholarship and Merit Bursary

PROFESSIONAL EXPERIENCE

Software Developer — Jan 2023 – Aug 2023
Business Systems Group

- Developed a medical aid/insurance comparison website from scratch, from design to deployment following Agile methodologies and a Test Driven Development practice. Deployed applications on AWS and Azure
- Built microservice system architectures with Java and the Spring Boot framework for both REST and SOAP APIs
- Implemented web applications using React through Next.js and Angular, prioritizing privacy UX and compliance with privacy regulations
- Mentored and coordinated a group of software development interns to deliver an in-house prototype solution

Teaching Assistant/Tutor — Feb 2021 – Dec 2022
University of Johannesburg

- Delivered practical tutorials on C++ and introductory computer science concepts
- Evaluated weekly-due practical VB.NET, HTML/CSS, C#, and C++ assignments, tests, and exams undergraduate students
- Mentored second-year student Informatics project

Co-Founder and Lead Engineer — Mar 2014 – Dec 2022
Arachnid Design

- Developed, designed, and maintained digital platforms for start-ups, educational institutions, and community forums

Founder — May 2013 – Nov 2016
The Gaming Report

- Founder of one of the leading gaming media outlets in Africa, attracting over 100,000 monthly readers across digital channels
- Covered the world's largest video game events, including E3, Gamescom, and the Tokyo Game Show, as well as local events rAge Expo and EGE SA
- Negotiated large advertisement deals with game distributors for EA, Activision, and Xbox

PROJECTS AND RESEARCH

Enhancing Health Device Privacy with Federated Learning and k-Anonymity - De-identified private health device dataset using k-anonymity and utilised edge-device machine learning through Federated Learning to enhance user privacy

Immune Raider - A serious game demonstrating AI powered by immunological algorithms and built using the Unity game engine. Won Top 5 at the University of Johannesburg

Undergrad Research Projects - Emotion Recognition with Cat Tails; Comparison of Activation Functions in Galaxy Morphology Classification; a mobile app to help officers preserve crime scene photographic evidence; cura, an Android and web application for children and psychologists, winner Top 2 and Best Website; Green Pantry, a fully fledged grocery e-commerce website, winner Top 1

CERTIFICATIONS

Certified Information Privacy Technologist (IAPP CIPT)

Professional Scrum Product Owner I (PSPO I)

Professional Scrum Master I (PSM I)