

Navendran Naidoo

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Professional Profile

Final-year Computer Science student at the University of Pretoria, demonstrates a passion for problem-solving through technology. Thrives in collaborative environments and seeks to contribute skills to innovative projects.

Education

2021 - Current: BSc Computer Science, University of Pretoria

Top Subjects:

- COS221 - Introduction to Database Systems
- COS214 - Software Modelling
- COS330 - Computer Security and Ethics
- COS341 - Compiler Construction

2016-2020: National Senior Certificate, Kingsway High School

Subjects: English Home Language, Mathematics, Engineering And Graphic Design,

Afrikaans First Additional Language, Physical Sciences,
Biological Sciences, Life Orientation

GPA: 72,5%, with 2 distinctions

Top Subjects: Mathematics, Physical Sciences

Work Experience

2022-Current: Freelance Photography

Skills acquired:

- Effective Communication: Conveying ideas clearly to clients, models, or team members during photoshoots.
- Active Listening: Understanding client needs and incorporating feedback into the work.
- Collaboration: Working seamlessly with stylists, assistants, and clients to achieve desired outcomes.
- Time Management: Scheduling and adhering to deadlines, ensuring clients receive timely service.

- Creativity and Vision: Translating client ideas into visually appealing images.

Projects

2023: COS 216 Car Listing Website:

- Developed a dynamic car listing website featuring a custom-designed database for storing and managing car listings.
- Designed and implemented various APIs to facilitate seamless data retrieval and updates.
- Ensured robust security by preventing SQL injection and applied responsive design principles using CSS.
- Leveraged JavaScript, HTML, and SQL to create an interactive and user-friendly interface, showcasing expertise in full-stack web development and secure coding practices.

2024: COS 341 Compiler Project:

- Developed a compiler in Java for a given programming language, implementing all phases of compilation: lexing, parsing, semantic analysis, type checking, and code generation.

2025: COS 301 NoSQL MPDB (Mini - Project Database)

- Contributed to the development of a modular NoSQL database system comprising a REST API, JavaScript Client Library, CLI, and UI.
- Led the integration between the API, JS Client Library, and UI components, ensuring consistent data flow and interaction.
- Utilised Jest to write integration tests, which helped verify system-wide behavior and finalize API responses for UI use.
- Overcame challenges related to project scale by applying modular design, effective testing strategies, and consistent communication between teams.
- Github Link: [MPDB Project](#)

Skills

Languages:	English (fluent)
Coding:	Java, C++, Python, JavaScript
Computer Literacy:	Proficient in Microsoft Word, PowerPoint, and Excel