Navendran Naidoo

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Professional Profile

Third-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.

COS 221 Winery Project:
- Collaborated with a team of 6 to design and develop a web application for exploring wineries and wines, integrating database management with user-friendly navigation.
- Contributed to research, database design, CSS styling, and functional requirements, showcasing skills in web development, database modelling, and collaborative teamwork.

2024: COS 214 City Builder Simulation:
- Collaborated with a team of 7 to develop a city-building simulation game in C++ that challenges players to manage and expand a virtual city by balancing infrastructure, resources, citizens' needs, and government policies.
- Utilised advanced software engineering principles, incorporating design patterns to ensure modularity and scalability.
- Effective teamwork facilitated the integration of diverse ideas and expertise, enabling the delivery of a polished, strategic gameplay experience. The game emphasised strategic decision-making and showcased expertise in C++ programming, object-oriented design, and simulation development.
- GitHub Link: CityBuilder Simulation

COS341 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.

Skills

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