

Luc Van den Handel

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Profile:

High school graduate currently a third year at the University of Cape Town, studying a BSc in Computer Science and Computer Engineering. Passionate about software engineering. Eager to gain work experience.

Education:

- **2020: Relevant Course Work:**
 - Mobile Application Design
 - Computer Architecture
 - Parallel computing
 - Introductory Statistics
 - Data structures
 - Database design
 - Introduction to Electrical and Electronic Engineering.
 - Systems and Business Analysis.
- **2019: First Year – Term GPA 81.0**, courses completed:
 - Introduction to programming and algorithms.
 - Introduction to object-oriented techniques, social issues and professional practice.
 - Modelling and Applied Computing.
 - Dynamics and Mathematical Physics
 - General Physics
 - Pure Mathematics 1
- **2018: National Senior Certificate**, Oakhill School, Knysna
 - Second in class, top in 3 subjects, 6 Distinctions

Work Experience:

- August 2020 – November 2020: Tutored first year computer science students learning OOP in Java.
- February 2020 – June 2020: Tutored first year computer science students learning the basics in Python.
- March 2017: 3-day job shadowing project of a software engineer at Data Sciences Corporation.
- December 2016: Worked as an assistant in a computer repair shop.
- Side projects and personal website can be viewed at: <https://github.com/Luc-VdH> and <https://lucvdh.co.za/>

Skills:

Programming and Related Languages:

- Proficient in Java, Python, MIPS and SQL.
- Confident in Swift, C++, Arduino, Shell, HTML, CSS and JavaScript

System Development: from course work

- Use of the Unix command line.
- Understanding of data structures and their effect on efficiency.
- Implementing parallel algorithms using threads.
- Understanding computer architecture.
- Familiar with the analysis phase of the SDLC: the creation of Business Case and User Requirement Specification documents.
- Confident in UML Modelling
- Fluent in methods of investigating user needs.
- Competent in the practices of software testing.
- Confident in the construction of a personal computer.

Teaching and Communication:

- Teamwork and public speaking skills developed due to school SRC involvement and group projects
- Capable of understanding a student's code to explain errors and ways they can be corrected.
- Comfortable with communicating with a student to help explain a complex concept.

Achievements:

- **2019: Class Medal and Dean's Merit List**, awarded for being top of class for second semester physics and overall academic excellence respectively
- **2018: Completed Gold Level Presidents Award**
- **2017: Elected SRC vice president**