Jehan Singh

Curriculum Vitae

Personal Details

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Personal Profile

I am a third-year Electrical and Computer Engineering student at the University of Cape Town. I believe that I am an adaptable individual who is willing to learn whatever is needed to succeed in any role I find myself performing. While I have a variety of programming skills and an interest in embedded systems. I have a particular interest in and relatively significant experience with Linux administration and maintenance including cluster computing, with a strong interest in system administration and operations. I hold an elementary knowledge of computer science. I believe that I can find intelligent and useful solutions to problems.

I have started working on small personal projects in my spare time, which can be found on my GitHub at https://github.com/KaliumPuceon/ and I also have some experience with basic website design, which can be seen on my personal website, https://awful.cloud/

Education

- 2016-present: Studying towards BSc. Eng. in Computer Engineering
- 2015: Graduated from Northcliff High School with distinctions in Mathematics, Information Technology, Life Sciences, Physical Sciences, and Life Orientation, as well as a merit in Advanced Program Mathematics

Work Experience

Vacation work at ABSA Aliens

- A two-week placement at the ABSA Aliens in January 2018

- Prototyped a system for locating a device within a building based on pre-existing wi-fi networks, the initial prototype can be found here: https://github.com/KaliumPuceon/FieldMap

- Learnt valuable skills for working with a team during development

Undergraduate internship at MWR Information Security

- A two-week training internship with MWR Information Security, Johannesburg in December 2017

- Received training and experience with webapp security as well as in formal reporting on such faults

- Gained basic familiarity with a variety of security testing tools

Vacation work at JourneyApps, Stellenbosch

- Three-week vacation work placement at JourneyApps Stellenbosh, July-August 2017

- Worked on NodeJS API server wrapper to reduce the number of API calls needed

- Gained familiarity with asynchronous javascript programming

Skills

- Experience using the programming languages and tools Python (including scientific computing packages), Lua, Pascal, and Linux Shell Scripting tools.

- Elementary or Basic knowledge of C, NodeJS, Java, including some Android development, HTML, CSS, and SQL

- Experience with Linux system administration and environment management across a variety of distributions and environments, including Linux cluster environments and web servers

- Competent user of both Microsoft Office packages and LaTeX document creation tools

- Competence with both Windows and GNU/Linux Operating Systems

- Experience with electronic construction and design

- Capable of quickly learning about new tools or systems as needed

- Skill at working with technical equipment or documents

Additional Achievements

- Led the team that placed 1st in the 2018 South African Student Cluster Competition

- Placed fourth nationwide in the 2015 SAIP Physics Olympiad

- Part of the team that placed 1st nationwide and 27th worldwide at the World Robotics Olympiad 2013, Jakarta.

- Highest scoring student at World Scholar's Cup: South African round, 2015