

Sven Struan Finlay

Skills

Programming Languages

- Proficient (5 years programming in): **Java**
- Experienced (Modules taught in these languages) : **JavaScript (with HTML & CSS3), C & Haskell**
- Basic: **Python**

OS's: **Windows, Linux**

Tools: Git, Mercurial, LaTeX, Jupyter Notebook & Node.js

DB: Experienced: XML & JSON | Basic: MySQL, Solr & Couch

Recent Awards

- 1st Place StacsHack (hackathon): Awarded for project: Star Wars Dungeon.
 - Amazon Scotland Competition Winner – StacsHack 2017.
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Education

University of St Andrews (Scotland):

- **3rd Year BSc (Hons) in Computer Science.**
Averaging Firsts for individual and group projects and 2:1's for exams. Aiming for a 1 / 2:1 Degree)
Graduating June 2019.
- **Extramural :** Manager of University Big Band | Officer of University South African Society | Musical Director of Acapella choir

Finance for non-financial Managers:

- A short finance University of Cape Town Graduate School of Business

South African College High School (SACS Cape Town):

- Graduated First Class Cum Laude in 2014
 - School Colours (highest award) for Academics, Music and Choir
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Projects

Star Wars Dungeon Two awards received

We built a game in java that was represented in 2.5D and was a combination of Star Wars and DnD (Dungeons and dragons). This is a multiplayer game and the game master can control the game with voice control over Amazon Alexa. I contributed extensively to this project focusing mainly on the game map and player movement. Implemented using TCP, Java, HTTP

Degree related Projects:

- While at St Andrews I will have completed over 30 CS projects by the end of third year, both individual and team. In first year this included a Loco -> postscript compiler, an implementation of backgammon with GUI and an AI, and an implementation of Hunt-the-Wumpus.
 - In second year in teams of three we built programs such as an implementation of GO in Haskell for which I built a compelling AI using a minimax algorithm.
 - Currently we have a yearlong project for which the class is split up into groups and are collaborating using the SCRUM software engineering framework to build a data analysis website for researchers in the medical school of the university. My team specifically is tasked with building the front-end for this website.
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Personal Strengths

- Fast learner, particularly of new concepts and languages.
- I work well in teams as is also reflected in achieving Firsts for my team-based projects.
- My involvement in music has helped me develop a creative mind which I find can be applied advantageously in computer science and in other spheres.