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| <div>Avi Bank</div> <div>Computer Scientist</div> |
| <div>Personal Info</div> |
| <div><div>Website</div><div>avi-bank.com (working, kind of)</div></div> <div><div>Phone</div><div>+27 82 048 48 49</div></div> <div><div>E-mail</div><div>avibank1@gmail.com</div></div> <div><div>Date of birth</div><div>1992-12-23</div></div> |
| <div>Programming Languages (Proficient)</div> |
| <div>Python</div> <div>C</div> <div>C++</div> <div>Java</div> <div>JavaScript</div> <div>Matlab</div> |
| <div>Programming Languages (Familiar)</div> |
| <div>C#</div> <div>Mathematica</div> <div>VisualBasic</div> |
| <div>Markup & Data Query Languages</div> |
| <div>SQL</div> <div>GraphQL</div> <div>HTML CSS Markdown</div> <div>L^AT_EX</div> |
| <div>Systems, Protocols, Programs & Frameworks</div> |
| <div>Linux</div> <div>LDAP</div> <div>Docker</div> <div>MPI</div> <div>Intel Parallel Studio</div> <div>Django</div> <div>VueJS</div> <div>NodeJS</div> <div>Excel</div> <div>Android</div> <div>IOS</div> |
| <div>Skills</div> |
| <div>System Administration</div> <div>High Performance Computing</div> <div>Machine Learning</div> <div>ARM</div> <div>Nordic Semiconductor</div> <div>Embedded Systems</div> <div>Optimisation</div> <div>Numerics</div> <div>Mathematics</div> <div>Formal Logic</div> <div>Cryptography</div> <div>Applied Computational Finance</div> |
| <div>Interests</div> |
| <div>Python for Finance & Insurance</div> <div>Cyber Security</div> <div>Music Composition</div> <div>Piano, Guitar, Cello & Drums</div> <div>Cycling, Hiking & Climbing</div> <div>Cooking & Baking</div> |

Inquisitive, energetic computer science specialist skilled in leadership, with a strong background in High Performance Computing, math, logic, and cross-platform coding. Seeking to leverage solid skills in collaboration, communication, and development as a computational scientist and cluster administrator.

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| <div>Experience</div> |
| <div><div><div>2017 - present</div><div><div><div>HPC Instructor</div><div><i>University of the Witwatersrand</i></div><div><ul style="list-style-type: none">Trained teams to setup and use a cluster for the national CHPC Student Cluster CompetitionOrganised and maintained a cluster, for training and research at the Wits Mathematical Sciences Laboratories.Coached teams who placed 2nd and 1st place in the national SCC.</div></div></div></div></div> |
| <div><div><div>2018-06 - 2018-08</div><div><div><div>Software Testing</div><div><i>O C C Development</i></div><div><ul style="list-style-type: none">Responsible for system integration and user space testing of a company's operations programResponsible for communicating status of acceptance-tests between client and software development team.Responsible for test design, implementation and reporting.Created an automated invoice generator based on time logs for my work.</div></div></div></div></div> |
| <div><div><div>2015-12 2016-07</div><div><div><div>CSIR, Centre For High Performance Computing</div><div><i>CHPC international team member for ISC 2016</i></div><div><ul style="list-style-type: none">Trained teams to setup and use a cluster (3 commercial servers as nodes) for the national CHPC Student Cluster Competition (CSIR)Organised and maintained an office with 20 commercial servers (decommissioned STAMPEDE nodes) for training and experimental use at the Wits University Mathematical Sciences Laboratories.Coached teams who placed 2nd and 1st place in the national SCC.</div></div></div></div></div> |
| <div>Education</div> |
| <div><div><div>2019</div><div><div><div>University of the Witwatersrand, Computer Science, B.Sc Honours</div><div><ul style="list-style-type: none">Advanced courses taught by world class researchers, and certainly the best in the country, if not the continent:Machine LearningComputer VisionDigital Image ProcessingHigh Performance ComputingData Analysis and ExplorationReinforcement LearningApplications of AlgorithmsHonours Research: Scaling Automated Machine Learning With Parallel Algorithms Deployed to a GPU Cluster. Supervisors: H.Wang, T.Celik, M.Woolway</div></div></div></div></div> |
| <div><div><div>2018</div><div><div><div>University of the Witwatersrand, Computer Science, Mathematics, B.Sc</div><div><ul style="list-style-type: none">80 % average (Computer Science)Favourite area of study in computer science: Machine LearningExtracurricular project: machine learning integrated IoT sensors in a power meter, for road cycling.Ran a High Performance Computing course for students</div></div></div></div></div> |
| <div><div><div>2011</div><div><div><div>Eden College (NSC)</div><div><ul style="list-style-type: none">6 distinctionsAcademic honoursTennis squad captainHead Boy</div></div></div></div></div> |