JOSHUA RUTHEL

Information/Software Engineer

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Johannesburg South Africa



PROFILE

A diligent learner with an immense work ethic and a deep fascination with the technological world. Currently in pursuit of a BEng in Information (Software) Engineering.

On the lookout for any opportunity to gain work experience and insight into the role of a Software Engineer in the modern age.

SKILLS

Problem - Solving

Leadership

Time-Management

Communication

Teamwork

INTERESTS



Lifting



Technology



Sport



Gaming

- Machine Learning
- OS Development
- ☐ Web/App Development
- ☐ Artificial Intelligence
- Embedded Systems
- ☐ Cyber Security

COURSEWORK

- ❖ Software Development I & II
- Introduction to Machine Learning
- Secure Computing
- Data Intensive Computing
- Data Structures and Algorithms
- Microprocessors

EDUCATION



Matriculated, 2019 King Edward VII School



Enrolled at University, 2020 University of Wits Watersrand BEng Information Engineering Year of study - 4

IN THE CLASSROOM

Matric

3rd in Johannesburg East District 8/8 Distinctions 90.4% Average Distinction in Advanced Program Mathematics

University

83% Total Average in 3 years of study 25/30 Course Distinctions Deans List & Certificate of Merit in 2020 Merit Scholarship 2021, 2022 & 2023

Matric Math Challenge

Placed 1st in Gauteng for Grade 12

OUTSIDE THE CLASSROOM

Prefect

Head of School House 2019 Part of the 12 Member Leadership Committee

Work Experience

12 Week Internship based work at Syft Analytics. An API Data Centre was built using React with integrations to Shopify, Stripe, MS Teams amongst others. Experience with lead enrichment and automating the process with a React based filtering and enrichment web application.

PROGRAMMING



React, HTML, CSS, TailwindCSS, Javascript, Redux



C++, Python, Node.js, Express.js, Sequelize ORM



PostgresSQL, OAuth, Git, SFML, Jupyter Notebook



<u>https://JoshRuthel.github.io/web-portfolio</u> - A link to my web-portfolio

To whom it may concern,

It's my absolute pleasure to recommend Josh.

I was Josh's supervisor at Syft Analytics during his internship.

I thoroughly enjoyed my time working with Josh. He is an asset to absolutely any team. He worked well in a team environment and was able to complete tasks given to him with minimal supervision required

His work ethic was a huge advantage to our entire team. He put this skillset to work in order to build out connections to multiple APIs.

Without a doubt, I confidently recommend Josh to join your team. As a dedicated and knowledgeable employee and an all-around great person, I know that he will be a beneficial addition to your organization.

Please feel free to contact me at 0833871563 should you like to discuss Josh further. I'd be happy to expand on my recommendation.

Best wishes, David Golach



This is to certify that Mr. Joshua-Daniel Ruthel was registered as detailed below:

Student ID: 2366020 Date: 07 March 2023

Prizes & Awards:

2020 Dean's List

2020 Certificate of Merit PHYS1032A Engineering Physics IA

Scholarships:

2020 UNIVERSITY ENTRANCE SCHOL 2020 UNIV COUNCIL SPORTS SCHOL 2021 UG -UNIV COUNCIL MERIT SCHO

The student has fulfilled the requirements for a certificate of conduct

This is a digital transcript generated electronically through the Wits student self-service portal. A watermarked document can be issued from the Faculty office upon request.

*This qualification preceded the Higher Education Qualifications Framework (HEQF) and therefore the Qualification ID, the NQF level and NQF credits of programmes and courses are not displayed.

Please note that the codes reflected in the transcript may differ from those in use at the time of the original registration.

English is the language of instruction and all tuition and examinations/assessments are conducted in English.

This document may not be altered.

Alteration to the document and its annexures in any manner/form is a contravention of the University's rules, regulations, policies, procedures and standing orders ("the Rules") and may constitute fraud.

Any person who does so will face disciplinary proceeding in terms of the Rules and may be criminally prosecuted.





This is to certify that Mr. Joshua-Daniel Ruthel was registered as detailed below:

Student ID: 2366020 Date: 07 March 2023

2022

Bachelor of Science in Engineering (Electrical) Information (Full-Year of Study 3

Time)

SAQA Qualification ID: 14004

Program/Course		Final Marks	Result Code	Result Decision	NQF Level	NQF Credit	Exam Type
APPM3021A	Computational Mathematics	95	A	PASS	7	15	.,,,,
ELEN1998A	Vacation Work I (Electrical)			WINC			
ELEN3002A	Electronics II	87	Α	PASS	7	15	
ELEN3007A	Probabilistic System and Signal Analysis	86	Α	PASS	7	12	
ELEN3009A	Software Development II	69	C	PASS	7	18	
ELEN3012A	Signals and Systems IIA	55	D	PASS	7	12	
ELEN3013A	Signals and Systems IIB	95	Α	PASS	7	9	
ELEN3015A	Data and Information Management	86	Α	PASS	7	18	
ELEN3016A	Control I	84	Α	PASS	7	18	
ELEN3017A	Electrical Engineering Design	75	Α	PASS	7	15	
ELEN3018A	Economics of Design	73	В	PASS	7	12	
ELEN3024A	Communication Fundamentals	85	Α	PASS	7	12	
150 credit points at level 1 have been granted							
154 credit poir	nts at level 2 have been granted						

OUTCOME: Permitted to proceed

2023

Bachelor of Science in Engineering (Electrical) Information (Full-Year of Study 4

Time)

SAQA Qualification ID: 14004

Program/Course		Final	Result	Result	NQF	NQF	Exam
		Marks	Code	Decision	Level	Credit	Type
ELEN1998A	Vacation Work I (Electrical)	***	***	***			1000000
ELEN4006A	Measurement Systems	***	***	***	8		
ELEN4011A	Information Engineering Design	***	***	***	8		
ELEN4012A	Information Engineering Laboratory	***	***	***	8		
ELEN4019A	Select Topics in Sociology	***	***	***	8		
ELEN4020A	Data Intensive Computing in Data Science	***	***	***	8		
ELEN4024A	Secure Computing	***	***	***	8		
ELEN4025A	Introduction to Machine Learning	***	***	***	8		
MECN4020A	Systems Management and Integration	***	***	***	8		

OUTCOME: ***

QS482)



This is to certify that Mr. Joshua-Daniel Ruthel was registered as detailed below:

Student ID: 2366020 Date: 07 March 2023

2020

Bachelor of Science in Engineering (Civil) (Full-Time) Year of Study 1

SAQA Qualification ID: 14004

Program/Course		Final Marks	Result Code	Result Decision	NQF Level	NQF Credit	Exam Type
CHEM1051A	Engineering Chemistry I	86	A	PASS	5	12	Type
FEBE1000A	Introduction to the Engineering Profession	76	Α	PASS	5	12	
FEBE1002A	Engineering Analysis and Design IA	86	Α	PASS	5	12	
FEBE1004A	Engineering Analysis and Design IB	82	Α	PASS	5	12	
HIST1011A	Global Encounters and Contemporary Realities IA	70	В	PASS	5	18	
MATH1042A	Engineering Mathematics IA	92	Α	PASS	5	18	
MATH1043A	Engineering Mathematics IB	84	A	PASS	5	18	
PHYS1032A	Engineering Physics IA	92	Α	PASS	5	18	
PHYS1033A	Engineering Physics IB	90	Α	PASS	5	18	
PHYS1034A	Applied Physics I	76	Α	PASS	5	12	

OUTCOME: Permitted to proceed

2021

Bachelor of Science in Engineering (Electrical) (Full-Time) Year of Study 2

SAQA Qualification ID: 14004

Program/Course		Final Marks	Result Code	Result Decision	NQF Level	NQF Credit	Exam Type
COMS2004A	Data Structures and Algorithms	95	Α	PASS	6	18	5/6/2
ELEN1998A	Vacation Work I (Electrical)			WINC			
ELEN2003A	Electric and Magnetic Systems	83	Α	PASS	6	18	
ELEN2005A	Signals and Systems I	78	Α	PASS	6	12	
ELEN2016A	Electronics I	64	C	PASS	6	16	
ELEN2017A	Electric Circuits	91	Α	PASS	6	12	
ELEN2020A	Software Development I	93	Α	PASS	6	16	
ELEN2021A	Microprocessors	90	Α	PASS	6	14	
MATH2014A	Mathematics II	78	Α	PASS	6	33	
PHYS2007A	Physics II (Electrical)	89	Α	PASS	6	15	
150 credit points at level 1 have been granted							

OUTCOME: Permitted to proceed

