

Statement of purpose

I am excited to apply to the graduate program of Computer Science at your esteemed University. As a recent graduate of the Eritrea Institute of Technology, where I earned a degree in computer science. I am excited to pursue a graduate degree and specialize in Computer Science with a concentration on Software development and AI. I believe that this program will provide me with the necessary skills and knowledge to create innovative software solutions that leverage AI and data analysis techniques.

My academic journey towards the field began at a young age, when I was always amazed and puzzled by how smart tools such as chatbots, smart doors and fingerprint verification work. As I grew older, my passion deepened, and I decided to pursue a degree in Computer science at the Eritrea Institute of Technology. The program provided me with a broad foundation in computer science concepts and a strong foundation in programming languages such as Java, Python, C++, and PHP. Through various projects and assignments, I have gained hands-on experience with data structures, algorithms, Software engineering principles, and data analysis.

During my undergraduate studies, my strong background in mathematics also helped me find creative ways to solve complex problems related to data analysis, and Python was my favourite programming language. In addition to my regular classes, I continued to expand my knowledge and skills in programming languages. In 2019, during my college sophomore year, I completed a rigorous Java programming course at the Polytech Vocational Centre in Asmara. In this course, I was introduced to object-oriented programming, algorithm generation, and database connectivity. I also worked as a backend Java developer on an assessment project where I and 4 other classmates developed a hotel reservation system. My final year project in college was to integrate advanced email scraping algorithms into an online registration and payment confirmation system to automate and improve the efficiency of the system using PHP and JavaScript. The project proved to be particularly challenging, as the lack of sufficient internet access and research resources in Eritrea presented a significant obstacle. However, I remained undaunted and drew on my strength of being a target-focused and committed individual. As both the team leader and developer, I was responsible for finding creative solutions to complex technical problems, motivating my team to persevere through the work. Our hard work paid off, and we successfully delivered the project within the allotted time.

These experiences have helped me develop key skills and attributes that are highly valued in the computer science industry. From technical problem-solving to effective communication and team management, I have learned how to overcome obstacles, stay focused under pressure, and lead teams to success. After I graduated top-of-the-class and was working as a Lab technician at

Faith Mission High School as part of my national service duty, I had the opportunity of working with an experienced computer engineer as a part-time Python developer and assisted him in his project to develop a real-time facemask detection-based door lock. The project was a real-life work experience where I was responsible to design and implement a complex system, leveraging skills in data pre-processing and model training and deployment. I used the OpenCV library to process images and videos and I also had to implement different algorithms for data training and to build models. So, I became familiar with TensorFlow and Keras too. The project helped me see the future of our world and technology through the lenses of Software and AI engineering. It was after this experience that I decided I must specialize in software development. This is the main factor that has driven me to pursue a master's degree in computer science.

My motivation for applying to the graduate program at your university stems from its reputation as one of the top universities in Germany and Europe. The faculty's commitment to excellence in research and teaching and the Department of Computer Science's expertise in the areas of computation and IT are the reasons why I am impressed by the university. I believe that studying at your university will provide me with a unique opportunity to learn from some of the best minds in the field of computer science. The university has a strong track record of producing graduates who are well-equipped to handle the challenges of the modern world. I am confident that attending the program at your university will provide me with the cutting-edge skills and knowledge necessary to achieve my career goals.

My preferred career path after graduation is to work as a software engineer or researcher in top-tier tech companies that are investing in the areas of Artificial Intelligence, Robotics, and the Internet of Things. I believe that your graduate program will provide me with the industry-level skills and knowledge required to attain this goal.

Enthusiastic and excited about the future of the IT industry and Passionate about solving complex problems through technology, I seek to enhance my skills and knowledge in software development by pursuing a master's degree in Computer Science at your university. I am confident that my academic and personal background, combined with my passion for computer science and leadership skills, will make me a strong candidate for the program.




Abiel Yacob

Date of birth: 27 Apr 1999


Nationality: Eritrean


Gender: Male


CONTACT


 Mauritius St.
1000 Addis Ababa, Ethiopia
(Home)

 tomy0abr@gmail.com

 (+251) 996113866

 (+251) 974776991

 www.linkedin.com/in/abiel-yacob-tommy

 https://twitter.com/Abiel_Abrham1

 +251996113866 (Whatsapp)

ABOUT ME

I am seeking admission into the Master's program in **Computer Science** to advance my academic background and technical skills and specialize in the field. As a passionate and accomplished graduate in Computer Science with a keen interest in cutting-edge technology, I am excited to engage in hands-on research and undertake the program's rigorous coursework, working alongside a distinguished faculty.

WORK EXPERIENCE

1 JAN 2023 – CURRENT Addis Ababa, Ethiopia

Python Developer Google Developers Group

I am currently working as a python developer with a team working on a project named "Disease Detection in Coffee Plants using Computer vision". The project has a potential to have a significant impact on Ethiopia's coffee industry. My roles include designing and implementing vision algorithms using OpenCV and TensorFlow.

Address Addis Ababa, Ethiopia | **Website** <https://gdg.community.dev/gdg-addis/>

15 AUG 2022 – 16 DEC 2022 Addis Ababa, Ethiopia

System Administrator Intern Equatorial business Group

1. Supporting user accounts and access.
2. Assisting with system maintenance and troubleshooting.
3. Network infrastructure configuration.
4. Assisting with the company's ERP system deployment and updates.
5. Overseeing system's performance.

Business or Sector Wholesale and retail trade; repair of motor vehicles and motorcycles | **Department** Information technology Service | **Address** Saris Abo area, Addis Ababa, 0402, 8964, Addis Ababa, Ethiopia | **Website** www.ebg.com.et

1 SEP 2021 – 1 JUL 2022 Dekemhare, Eritrea

ICT Lab Technician Faith Mission High School

1. Maintaining and troubleshooting ICT equipments and networks.
2. Managing the ICT inventory.
3. Providing technical support and collaborating with teachers.
4. Supporting teachers in ICT lessons.

EDUCATION AND TRAINING

20 SEP 2017 – 20 JUL 2021 Asmara, Eritrea

Bachelor of Science Eritrea Institute of Technology

Software Engineering, Computer programming (Java, Python, C++), Web development (HTML, CSS, JavaScript, PHP), Software testing, Data Structures, Algorithms, Database management

Address Mai Nefhi, Eritrea, Asmara, Eritrea | **Final grade** 3.91

15 JAN 2019 – 15 MAR 2019 Asmara, Eritrea

Certificate PolyTech Vocational Training Center

Introduction to programming with Java, Object Oriented Programming, Algorithm Preparation

Address Warsay St., Asmara, Eritrea | **Field of study** Java Programming | **Final grade** 4.0

LANGUAGE SKILLS

MOTHER TONGUE(S): Tigrinya

Other language(s):

English

Listening
C2

Reading
C1

Spoken production
C1

**Spoken
interaction**
C1

Writing
C1

Amharic

Listening
C2

Reading
C1

Spoken production
C1

**Spoken
interaction**
C1

Writing
B2

ADDITIONAL INFORMATION

Networks and memberships

1 DEC 2022 – CURRENT Addis Ababa

Google Developers Group Engage with many software developers and tech-savvy people in different activities, sharing experiences, learning about new technologies from open-source community and attend tech conferences.

Management and leadership skills

Leadership During my final year project, I led and managed a team of senior undergraduate students, demonstrating effective leadership and project management skills. I successfully motivated and inspired team members to deliver high-quality work within tight deadlines, and effectively managed team dynamics to ensure smooth collaboration and achievement of project goals. This experience allowed me to develop my leadership, communication, and organizational skills in a team-oriented academic setting.

Business Management I have gained valuable experience in management and communication through my previous role as a small family business manager where I was responsible for overseeing day-to-day operations and managing finances. This experience allowed me to develop strong management skills, including problem-solving, and decision-making.

Hobbies and interests

Emerging Technologies

Artificial Intelligence

Chess

Communication and interpersonal skills

Communication I possess excellent written and verbal communication skills, which enable me to convey complex technical concepts in a clear and concise manner. I have a proven track record of effectively communicating with both technical and non-technical audiences. Additionally, I am an active listener who values constructive feedback and criticism, and I strive to incorporate it into my work to continually improve my skills and performance.

ፕላን ኤርትራ

ኢንሰቲትዩት ቲክኖሎጂ ኤርትራ

ማይ ነፍሐ



STATE OF ERITREA

ERITREA INSTITUTE OF TECHNOLOGY

MAI NEFHI

Date: 11th April 2023

COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TO WHOM IT MAY CONCERN

I am delighted to write this recommendation letter for Mr. Abiel Abrham who has been my student for three consecutive semesters at the department of Computer Science at the Eritrean Institute of Technology. I have known him closely for a year and have taught him two subjects, Algorithms and Data Analysis – CoSc 312, System analysis and design in his 3rd year. Furthermore, I was his senior year project advisor.

A sincere, highly intelligent, and responsible student, Abiel has successfully maintained an excellent academic record in the courses taught by me. He has been among the few such students who have completed all assignments before their deadlines and with optimal scores. His performance can be attributed to his clear concepts and strong fundamentals, which has always enabled him to grasp new ideas and topics with ease.

Data Structures sorting and searching are vital tools comprising programming language foundations. He has handled the same impeccably. Abiel has always come up with novel methods of applying the concepts as demonstrated while handling several projects in the 1st and 2nd semesters. He has always been highly active throughout the technical circuit of the institution. He was the leader of a team of highly motivated students who worked on a project intended to implement an online registration and payment systems at our institution as part of their senior year project. His leadership qualities are impressive, and his efforts have always been received with profound appreciation and enthusiasm by peers.

Furthermore, He has always been an independent thinker, striving to learn new things, while displaying huge promise through his penchant to delve beyond the scope of the curriculum. A student who believes in working hard and maximizing his capabilities, Abiel will be striving to fulfil all his responsibilities. His continual zeal towards learning and self-growth along with superior skills of time management will surely take him a long way in the future.

Hence, I strongly recommend him for higher level study and scholarship opportunities.

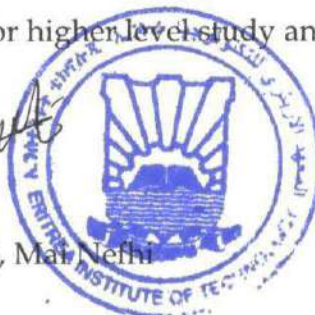
Sincerely yours,

Mr. Aji Michael (PhD)

Department of Computer Science

Eritrea Institute of Technology (EIT), Mai Nefhi

E-mail: michaelAji018@gmail.com



ሃገረ ኤርትራ

ኢንሰቲትዩት ቲክኖሎጂ ኤርትራ

ማይ ነፍሐ



STATE OF ERITREA

ERITREA INSTITUTE OF TECHNOLOGY

MAI NEFHI

Date: **12th January 2023**

COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TO WHOM IT MAY CONCERN

I have known Mr. Abiel in my ability as an instructor in his undergraduate study, at the Department of Computer Science. I taught Abiel different course at the department in which he has scored an "A" grade in all. And he was one of the top students in his batch and I would rate his academic performance, as his credentials witness, as excellent. He also conducted his work with dedication and enthusiasm and showed his ability in understanding and performing scientific research.

During his stay in the college as a student he demonstrated his ability to work independently and in harmony with his classmates. He always performed his task in dedication and enthusiasm, which reflects his communication and interpersonal skills.

I therefore have no doubt that his undergraduate studies have prepared him to do a postgraduate study. I feel that his personality and ability to work with others will make him the best candidate for your institute.

If you should need any additional information, please feel free to contact me.

Sincerely yours,

Rahel Goitom



Object Oriented Programming Instructor and Final Project Advisor

Eritrea Institute of Technology (EIT), Mai Nefhi

E-mail: rahelgoitom13g@gmail.com

Abiel A. Yacob

Most Recent Test Date: March 17, 2023

Address: Mauritius St. Addis Ababa, Addis Ababa, 1000 Ethiopia

Registration Number: 1934797

Print Date: April 7, 2023

Email: tomy0abr@gmail.com

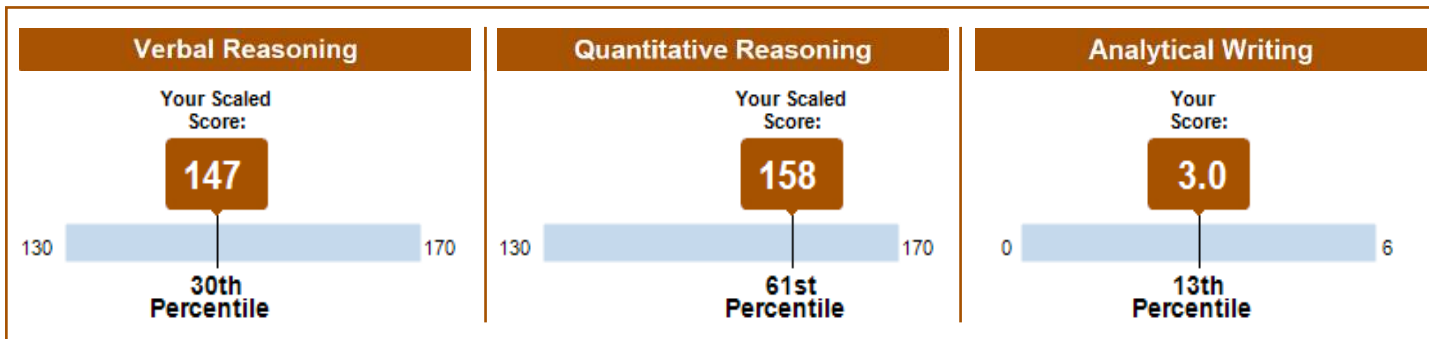
Phone: 251-996113866

Date of Birth: April 27, 1999

Gender: Male

Intended Graduate Major: Computer Science (0402)

Your Scores for the General Test Taken on March 17, 2023



Your Test Score History

General Test Scores

Test Date	Verbal Reasoning		Quantitative Reasoning		Analytical Writing	
	Scaled Score	Percentile	Scaled Score	Percentile	Score	Percentile
March 17, 2023	147	30	158	61	3.0	13

Subject Test Scores

You do not have reportable test scores at this time.

Your Score Recipient(s)

Undergraduate Institution

Report Date	Institution (Code)	Department (Code)	Test Title	Test Date
-------------	--------------------	-------------------	------------	-----------

Abiel A. Yacob

Most Recent Test Date: March 17, 2023

Date of Birth: April 27, 1999

Registration Number: 1934797

Print Date: April 7, 2023

Designated Score Recipient(s)

Report Date	Score Recipient (Code)	Department (Code)	Test Title	Test Date
March 29, 2023	KHALIFA UNIVERSITY (0822)		General Test	March 17, 2023
March 29, 2023	MAHARISHI UNIV MANAGEMENT (4497)		General Test	March 17, 2023
March 29, 2023	TECHNISCHE UNIVERSITAT MUNCHEN (7806)		General Test	March 17, 2023
March 29, 2023	UNIVERSITY COLLEGE LONDON (3344)		General Test	March 17, 2023

About Your GRE® Score Report

Score Reporting Policies

With the *ScoreSelect*® option, you can decide which test scores to send to the institutions you designate. There are three options to choose from:

- Most Recent option – Send your scores from your most recent test administration
- All option – Send your scores from all administrations in the last five years
- Any option – Send your scores from one OR as many test administrations in the last five years (this option is not available on test day when you select up to four FREE score reports)

Scores for a test administration must be reported in their entirety. Institutions will receive score reports that show only the scores that you selected to send to them. There will be no special indication if you have taken additional GRE tests. See the *GRE® Information Bulletin* for details. The policies and procedures explained in the Bulletin for the current testing year supersede previous policies and procedures in previous bulletins.

Scores will be sent to designated score recipients approximately 10-15 days after a computer-delivered test and 5 weeks after a paper-delivered test. If your scores are not available for any reason, you will see "Not Available" in Your Test Score History.

GRE test scores are reportable according to the following policies:

- For tests taken prior to July 1, 2016, scores are reportable for five (5) years following the testing year in which you tested (July 1 – June 30). For example, scores for a test taken on May 15, 2015, are reportable through June 30, 2020. GRE scores earned prior to August 2011 are no longer reportable.
- For tests taken on or after July 1, 2016, scores are reportable for five (5) years following your test date. For example, scores for a test taken on July 3, 2016, are reportable through July 2, 2021.

Note: Score recipients will only receive scores from test administrations that you have selected to send to them.

Percentile Rank (% Below)

A percentile rank for a test score indicates the percentage of test takers who took that test and received a lower score. Regardless of when the reported scores were earned, the percentile ranks for General Test and Subject Test scores are based on the scores of all test takers who tested within the most recent three-year period.

Abiel A. Yacob**Most Recent Test Date: March 17, 2023****Date of Birth:** April 27, 1999

Registration Number: 1934797

Print Date: April 7, 2023

Retaking a GRE Test

You can take the GRE® General Test *once every 21 days*, up to *five times* within any continuous rolling 12-month period (365 days). This applies even if you canceled your scores on a test taken previously. You can take the paper-delivered GRE General Test and GRE® Subject Tests as often as they are offered.

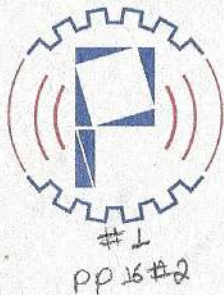
Note: This policy will be enforced even if a violation is not immediately identified (e.g., inconsistent registration information) and test scores have been reported. In such cases, the invalid scores will be canceled and score recipients will be notified of the cancellation. Test fees will be forfeited.

For More Information

For information about interpreting your scores, see *Interpreting Your GRE Scores* at www.ets.org/gre/test-takers/general-test/scores/understand-scores.

For detailed information about your performance on the Verbal Reasoning and Quantitative Reasoning sections of the computer-delivered GRE General Test, access the free GRE Diagnostic Service from your ETS account. This service includes a description of the types of questions you answered right and wrong, the difficulty level of each question, and the time spent on each question. This service is available approximately 15 days after your test administration and for six months following your test administration.

If you have any questions concerning your score report, email GRE Services at gre-info@ets.org or call 1-609-771-7670 or 1-866-473-4373 (toll free for test takers in the U.S., U.S. Territories and Canada) between 8 a.m. and 7:45 p.m. (New York Time).



POLY TECH
VOCATIONAL TRAINING CENTER



Certificate

This Certificate is awarded to Mr./Ms.

Abiel Abrham Yacob

In Recognition of his/her successful achievement in the field of:

** PROGRAMMING*

** Java level One*

Isaias Okbai
Polytech-Managing director

Isaias Okbai
Managing Director

A three Month intensive Course, from 15/01/19 to 15/04/19





POLY TECH

**VOCATIONAL TRAINING CENTER AND IT
SOLUTIONS**

GRADE REPORT

The grade report is officially awarded to

Mr . Abel Abraham Yacob

Course code	Courses	Credit hrs	Grade	Mark
PR-401	Introduction to Programming Java	4	A	16
PR- 402	Object Oriented Programming	4	A	16
PR-403	Algorithm Preparation	4	A	16
PR-404	Project Work	4	A	16
	Total	16		64
	CGPA		4.0	

This grade report, duly signed and sealed is officially given to its bearer as successful trainee who has attended Programming class for three months at Poly Tech Vocational Training Center Asmara.

From January 15th to April 15 th, 2019

Date of Issue: April 2019




Instructor's Sign

Tel-00291-1-180482
eriPolytech@gmail.com

P.O. Box 2140 Asmara-Eritrea

E-mail:

POLYTECH: A STEP FORWARD!!