Radwan Al-Shawesh

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City of Sana'a, Yemen

SUMMARY

[] = CLICK TO VERIFY DOCUMENTS

A passionate computer science enthusiast with a strong foundation in mathematics, computer science, software engineering, and artificial intelligence. Driven by curiosity and a strong passion for research, I am constantly exploring new ways to innovate and push the boundaries of what technology can achieve. If you're looking for someone who gets excited about breakthroughs in computer science, embracing new challenges, and turning coffee into code, then we're on the same page!

PERSONAL INFORMATION

NameRedhwan Abdullah Thabit Al-ShaweshMarital StatusMarriedNationalityYemeniPlace of BirthSana'a, Yemen

Gender Male Languages English, Arabic, Chinese

Date of Birth12 October 1992ProfessionLecturer

EDUCATION

• East China Normal University [)

M.S.E Software Engineering

Sep. 2018 - July 2021 Shanghai, China

- Specialization: Artificial Intelligence, Deep learning, Medical Big Data, and Computer Vision.
- $\circ \ \textbf{MSc Thesis:} \ Histopathological \ Colorectal \ Cancer \ Image \ Classification \ based \ on \ Convolutional \ Neural \ Network$
- Supervisor: Prof. Chen YiXiang
- o GPA: 4.21/5.00
- o Awards: Shanghai Goverment Scholarship Type A
- Relevant Coursework: Computer Architecture, Algorithm Design and Complexity Analysis, Fundamentals of Artificial
 Intelligence, Data Visualization, Theoretical Foundation of Software, Software/Hardware Co-Design, Machine learning,
 Large-Scale Nonlinear Programming, Advanced Design Methodologies for Smart Systems, Seminar on Embedded Systems.
- South East University [)

MTCSOL Master of Teaching Chinese to Speakers of Other Languages

Sep. 2016 - July 2018 Nanjing, China

- MSc Thesis: An Experimental Analysis of Pronunciation Errors in Chinese Initial Consonants by Yemeni Students
- Supervisor: Prof. Zhang TianLai
- o GPA: 4.50/5.00
- 。 **Awards:** CSC Scholarship Type A
- Nanjing University of Aeronautics & Astronautics [

B.Eng Aeronautical Engineering

Sep. 2012 - July 2016

Nanjing, China

- Specialization: Aircraft Control and Information Engineering
- o **GPA:** 3.10/5.00
- Awards: CSC Scholarship Type A, Top 100 Outstanding Young Students
- Relevant Coursework: Linear Algebra, Algebra & Trigonometry, Introduction to Computer Science, Computer Programming, Calculus 1,2 & 3, Electrical Engineering & Electronic Technique 1 & 2, Physics 1 & 2, Information Retrieval & Utilization, Numerical Analysis, Discreet Mathmatics, Mathematical Equations, Software Engineering.
- Tongji University [�]

Preparatory Certificate in Science and Engineering

Sep. 2011 - July 2012 Shanghai, China

- 。 **Supervisor:** Prof. Li Ting
- **GPA:** 4.8/5.0
- Awards: CSC Scholarship Type A, Outstanding Academic Achievement Award, Excellent Attendance Award, and Active Participation in Various Activities Award.
- Relevant Coursework: Computer Science, Mathmatics, Physics, Scientific Chinese, Chemistry.

RESEARCH INTERESTS

- Machine Learning and Deep Learning
- Natural Language Processing (NLP)
- AI Applications in Healthcare
- Computer Architecture and Software System Design
- Computer Vision
- Reinforcement Learning (RL)
- Medical Big Data
- Autonomous Systems and Robotics

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RESEARCH EXPERIENCE

• Enhancing Histopathological CRC Image Classification by using CNN

Sep. 2020 - March 2021

Tools: [Python, TensorFlow, Keras, ResNet-50, Transfer Learning, Fine-Tuning, Macenko Method]



- Institution: East China Normal University.
- **Objective:** Investigated convolutional neural network (CNN) techniques for improving colorectal cancer (CRC) histopathological image classification.
- Methods: Adapted the ResNet-50 architecture using transfer learning and fine-tuning techniques. Leveraged pretraining on the ImageNet dataset, froze parameters in early layers, and retrained the dense and final layers to optimize feature extraction from CRC histopathological images in the NCT dataset.
- Outcomes: Achieved a 97.7% validation accuracy, demonstrating the model's potential for clinical applications in cancer diagnostics.

TEACHING EXPERIENCE

Courses I have taught:

Teaching experience includes 1 year at the University of Science & Technology (UST).

Course Title	Program	Semesters Taught	Mod of Teaching
Computer Fundamentals	BSc	1	Lectures & Lab
Computer Organization & Architecture	BSc	1	Lab
Introduction to Computer Science	BSc	1	Lectures & Lab
Software Engineering	BSc	1	Lecturers & Lab

Additional Courses I Can Teach:

Course Title	Teaching Readiness
Calculus 1, 2, 3	Intermediate
Computer Programming (C/C++, Java, Python)	Expert
Data Structures	Expert
Discrete Mathematics	Introductory
Digital Logic Design	Introductory
Introduction to Information Science & Technology	Expert
Linear Algebra	Introductory
Object-Oriented Programming	Intermediate
Precalculus	Expert
System Analysis & Design	Introductory
Web Development	Intermediate

PROJECTS

• Deep learning: [Histopathological Image Classification by Using CNN]

Sep. 2020 - March 2021

Tools: [Python, TensorFlow, Keras, ResNet-50, Transfer Learning, Fine-Tuning, Macenko Method]

viuren 2021 [**[]**]

- Adapted the ResNet-50 model to classify histopathological colorectal cancer (CRC) images.
- Utilized transfer learning and fine-tuning techniques to achieve state-of-the-art validation accuracy of 97.7%.
- Preprocessed the datasets by applying color normalization with the Macenko method to enhance consistency.

• AI Pathologist: [Image Classification Python Application for Lab Doctors]

March 2021 - April 2021

Tools: [Python, Qt for Python]

Developed a software program to utilize my own CNN network.

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- Designed the software to operate efficiently on both CPU and GPU, without requiring high-end hardware or third-party software dependencies.
- Optimized the user interface for simplicity, allowing pathologists and lab doctors to upload, classify, and analyze images
 efficiently.

PATENTS AND PUBLICATIONS

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

- [S.1] Your Name, et al. (Year). Title of Submitted Paper. Manuscript submitted for publication in *Journal Name*.

- [P.1] Inventor 1, Your Name, Inventor 3, et al. (Year). Title of Patent. Patent Office, Patent No. XXXXXXXXX. Registration Date: Date, Grant Date: Date, Publication Date: Date.

HONORS AND AWARDS

• Shanghai Goverment Scholarship Type A

Sep. 2018

East China Normal University

- Awarded this scholarship to pursue a Master's degree in Software Engineering.
- Successfully completed a three year master degree at ECNU.

• China Goverment Scholarship Type A

Sep. 2011

Embassy of China in Yemen

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- Awarded this scholarship to pursue a bachelor degree.
- Successfully completed a one-year preparatory course at Tongji University.
- Successfully completed a four-year bachelor's degree at NUAA.

China Goverment Scholarship Type A

Sep. 2016

Embassy of China in Yemen

- Awarded this scholarship to pursue a Master's degree in Chinese Language.
- Successfully completed a three-year master degree at SEU.

Top 100 Students Award

Sep. 2015

Nanjing University of Aeronautical & Astronautical Engineering

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• This award was given for excellence in academic performance, recognizing me as one of the top 100 students in the university during the 2015-2016 academic year.

Certificate of Honor

June 2012

Tongji University

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 Won the Outstanding Academic Achievement Award, Excellent Attendance Award, and Active Participation in Various Activities Award.

EMPLOYMENT HISTORY

Full-Time Work

• Foshan Safe Freight CO.,LTD | Safe CareMed [

July 2021 - June 2023

Software Engineer

Foshan, China

- Customized and developed full ERPNext modules using Python and Frappe Bench, optimizing internal workflows and automating key business processes, boosting workflow efficiency by 50%.
- Maintained Linux servers with 99.9% uptime and strengthened security.
- Built responsive UIs with JavaScript, jQuery, HTML, and Bootstrap 5, improving usability by 25%.
- Developed and managed multiple WordPress sites, creating custom themes and plugins to enhance functionality and improve SEO ranking.
- Collaborated with the marketing team to enhance visibility, refine strategies, and actively contributed to social media marketing efforts.
- Designed visuals and video edits using Photoshop, Illustrator, and Adobe Premiere for websites, applications, and social media campaigns, enhancing brand visibility and user engagement.

Part-Time Work

University of Science & Technology [♠]

June 2024 - Present

Lecturer

Sana'a, Yemen

• Developed and delivered engaging lectures in *Software Engineering, Data Structures & Algorithms, Introduction to computer science, and Computer Orginization* enhancing student understanding and performance.

Freelance & Contract Work

Unicom Group [\(\big) \)

June 2023 - July 2023

Full Stack Developer (Contract)

Sana'a, Yemen

Developed, customized, and maintained web-based applications for business solutions.

Trading Company [)

August 2022 - Sep. 2022

Full Stack Developer (Contract)

Jedah, Saudi Arabia

 Developed and launched the website for DadaoTool as part of a short-term contract, delivering a functional and responsive site within the timeframe. Gansu Province - Baiying city - Hepan Junior High School

• Taught science in English to junior high school students during a 15-day volunteer teaching and cultural exchange program.

- Promoted cross-cultural understanding and improved students' English communication skills through interactive science lessons.
- Recognized as an NUAA Advanced Individual of Summer Social Practice for contributions to education and community development.

SKILLS

- Programming Languages: C/C++, Python, Java, SQL
- Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn
- Operating Systems: Linux(Debian, Ubuntu, Fedora), Windows
- Database Systems: MySQL, PostgreSQL, MongoDB, SQLite
- DevOps & Version Control: Git, GitHub, CI/CD
- Web Technologies: HTML, CSS, Bootstrap, JavaScript, React, Node.js
- Mathematical & Statistical Tools: MATLAB
- Teaching Skills: Curriculum Design, Classroom Management, Assessment & Evaluation, Student Mentoring, Lecture Preparation
- Research Skills: Experimental Design, Data Analysis, Scientific Writing, Literature Review, Research Methodologies, Grant Writing
- Other Tools & Technologies: LaTeX, Jupyter Notebooks, Microsoft Office, Photoshop, Illustrator, Premiere

ADDITIONAL INFORMATION

Languages:

- Arabic: Native speaker.
- English: Fluent in reading, writing, and listening, with average speaking skills. Completed a bachelor's program taught in English and published academic papers in English. My primary, middle, and high school education was primarily in English.
- Chinese: Passed HSK Level 6, the highest language proficiency certification in Chinese.

REFERENCES

1. Professor Chen YiXiang (陈仪香) [#]

Professor, College of Software Engineering

East China Normal University Email: yxchen@sei.ecnu.edu.cn Phone: +86-186-2181-5769

F11011e. +60-160-2161-3709

Relationship: Master's Degree Academic Advisor

2. Prof. (Dr) Wang Wei Ying [\(\bar{\psi} \)]

Professor, Department of Engineering

Nanjing University of Aeronautical & Astronautical Engineering

Email: meewywang@nuaa.edu.cn

Phone: +86-138-5151-4220

Relationship: Head Supervisor during a Design Project

3. Prof. (Dr) Qian Yan (钱焱) [�]

Professor, Department of Business Administration

Nanjing University of Aeronautical & Astronautical Engineering

Phone: +86-25-8489-6220 *Relationship: Instructor*

4. Dr. Li Ting (李挺) [\(\phi\)]

Head Teacher, Department of International Cultural Exchange

Tongji University

Email: liting0811@126.com Phone: +86-138-1838-5961 Relationship: Head teacher