

Abdul Rahim

CONTACT	Email: abdulrahimhere@yahoo.com Linkedin: linkedin.com/in/cseabdulrahim	GitHub: github.com/abdulrahim2002 Website: abdulrahim.space
EDUCATION	University of Regensburg , Faculty of Informatics and Data Science Master of Science (M.Sc.), Human-Centred Artificial Intelligence (HCAI)	2025–present
	Panjab University , Chandigarh College of Engineering and Technology Bachelor of Engineering (B.E.), Computer Science and Engineering (CSE)	2020–2024
PUBLICATIONS	Rahim, A. et al. (2025). Integrating Machine Learning into Cardiovascular Disease Risk Prediction: A Comprehensive Analysis of Cholesterol, Heart Rate, and Gender Impact on Disease Prevalence. In: Kumar, A., Swaroop, A., Shukla, P. (eds) Proceedings of Fourth International Conference on Computing and Communication Networks. ICCCN 2024. Lecture Notes in Networks and Systems, vol 1292. Springer, Singapore. https://doi.org/10.1007/978-981-96-3250-3_23	
EXPERIENCE & INTERNSHIPS	Open Source Developer, Open Pocket Organization <ul style="list-style-type: none">Developed an open-source alternative to GetPocket, a “read-it-later” service that lets users save and organize online articlesDesigned and implemented a RESTful backend using Fastify and TypeScript, fully compatible with the original GetPocket API specification	August 2025–present
	Linux Kernel Mentorship Program, Linux Foundation (Supervised by: <i>Shuah Khan</i>) <ul style="list-style-type: none">Made 7+ contributions in mainline Linux kernelMitigated linear overflow vulnerabilities and fixed bugs, enhancing overall system security	Sept–Nov 2024
	Software Developer Intern, Gemini Solutions Pvt. Ltd. <ul style="list-style-type: none">Designed and developed an Automated Report Generation system, reducing the time required to create client reports by 90%Collaborated with cross-functional teams to debug & fix client code, ensuring high-quality deliverables and compliance with SLA’s	Jan 2024–May 2024
TRAINING	Data Science , National Institute of Technical Teachers Training and Research <ul style="list-style-type: none">Learned data pre-processing, model training, and evaluation techniques. Implemented linear, polynomial, decision tree, and random forest regression algorithms	June 2023–July 2023
SKILLS	Languages Typescript, Javascript, SQL, HTML, CSS, Python, Bash Scripting, C/C++, \LaTeX Cloud AWS (EC2, S3, IAM etc.), Docker, Terraform, Terminal text editors (Vim/Emacs), ssh Backend Node.js, Express.js like frameworks (e.g. Fastify), REST API development, Postgres MongoDB, Redis, Git, Drizzle ORM, Vitest, Bruno, regex expression, JWT Python & ML pandas, numpy, sklearn, matplotlib, seaborn N. Languages English (C1), Deutsch (A1)	
PROJECTS	Open Pocket – Backend server (<i>Github</i>) <ul style="list-style-type: none">Designed and developed a stateless, horizontally scalable backend for the Open Pocket platformDefined optimized PostgreSQL schemas and implemented caching with Redis to improve performanceUtilized Drizzle ORM for type-safe database interactions, schema migrations, and robust query handlingImplemented access and refresh token mechanisms using JWT for secure, stateless authenticationIntegrated Passport.js to support multiple authentication strategies with encrypted cookie-based sessions ensuring scalabilityWrote unit tests with Vitest and performed API testing using Bruno	

Game playing agent (*Github*)

- Developed a space shooter game from scratch using the Unity engine. Created a Reinforcement Learning (RL) agent for the game, trained using “Proximal Policy Optimization”

Web3 Decentralised Application (Dapp) (*Github*)

- Developed a Dapp for secure content sharing on the internet. Implemented ownership via the ERC1155 token standard on the Ethereum blockchain

Web interface for git repositories (*Link*)

- An open source, light, and fast web-based git repository viewer based on stagit. Re-designed the UI, implemented syntax highlighting and language auto-detection

VOLUNTEERING
EXPERIENCE

United Nations Volunteers Program

July 2024–August 2024

- Collaborated with the African Association of Entrepreneurs to launch social media campaign. Registered new members and initiated fundraiser to support the organization

EXTRA-
CURRICULARS

Leetcode (*leetcode.com/u/abdulrahim2002*): Solved 800+ questions on leetcode with 12k+ solution views

GRE: Cleared GRE exam with 323/340 marks. Scored perfect 170 in Quantitative section