

Abdul Rahim

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| CONTACT | Email: abdulrahimhere@yahoo.com Linkedin: linkedin.com/in/cseabdulrahim | | GitHub: github.com/abdulrahim2002 Website: thinkersclub.tech |
| EDUCATION | Panjab University , Chandigarh College of Engineering and Technology Bachelor of Engineering (B.E.) in Computer Science and Engineering (CSE) Data Structures, Analysis and Design of Algorithms, Microprocessors, Operating Systems, Theory of Computation, Neural Networks, Advanced Database Systems, Computer Networks and Security (<i>see details</i>) | | 2020–2024 |
| PUBLICATIONS | Integrating Machine Learning into Cardiovascular Disease Risk Prediction: A Comprehensive Analysis of Cholesterol, Heart Rate, and Gender Impact on Disease Prevalence Accepted for publication at ICCNet 2024 in the upcoming Springer LNNS | | |
| EXPERIENCE & INTERNSHIPS | Linux Kernel Mentorship Program (<i>see contributions</i>) <ul style="list-style-type: none">Among 48 candidates selected worldwide, to improve the Linux KernelMitigated linear overflow vulnerabilities in the Linux Kernel, enhancing overall system security.Replaced insecure, deprecated APIs in kernel sources with safer alternatives, improving code safetyFixed a bug in kselftest, improving the debugging experience 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 client code, ensuring high-quality deliverablesProposed novel solutions in testing framework, to meet client requirement | | Sept. 2024–present Jan 2024–May 2024 |
| TRAINING | Data Science, National Institute of Technical Teachers Training and Research <ul style="list-style-type: none">Learned data preprocessing, model training and evaluation approaches. Implemented linear, polynomial, decision tree and random forest regression algorithms | | June 2023–July 2023 |
| SKILLS | Languages | C, Python, Bash/Batch Scripting, C++, HTML, CSS, JavaScript, \LaTeX , C#, Assembly, Ocaml, SQL, MATLAB | |
| | Cloud | AWS (EC2, S3...), Docker, Terraform | |
| | Linux | Kernel module programming, kselftest, custom Kernel compilation, systemd | |
| | Technologies | Terminal editors (Vim/Emacs), Game Development (Unity Engine), ML-Agents (Unity), Git, GNU Make, REST APIs, distributed ledgers, MongoDB | |
| PROJECTS | Game playing agent, <i>github</i> <ul style="list-style-type: none">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” <i>Schulman et.al. 2017</i> Web3 Decentralised Application (Dapp), <i>github</i> <ul style="list-style-type: none">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, <i>view</i> <ul style="list-style-type: none">An open source light and fast web based git repository viewer based on stagit. Redesigned the UI, implemented syntax highlighting and language auto-detection | | |
| VOLUNTEERING EXPERIENCE | United Nations Volunteers Program <ul style="list-style-type: none">Collaborated with the African Association of Entrepreneurs to raise awareness about entrepreneurship opportunities in Africa. Registered new members and initiated a fundraiser, to support the association Community run effort <ul style="list-style-type: none">Participated in a community-run initiative providing free meals to patients and their families outside PGI Hospital, assisted in distribution and management | | July–August 2024 June 2024–present |