

Bharghava Kumar Purru

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EDUCATION

Case Western Reserve University

Masters in Computer Science.

U.S

08-2023 – 05-2025

Lendi Institute of Engineering and Technology

Bachelor of Engineering in Electronics and Communication Engineering

India

06-2018 – 05-2022

WORK EXPERIENCE

Halo Harbour | Case Western Reserve University

09-2024 – Present

- Developed a data projection platform supporting secure, privacy-centric data sharing for over 5,000 users, ensuring compliance with strict data privacy standards.
- Implemented features for selective data access, leveraging AWS Nitro Enclaves to strengthen secure computation, reducing data breach risks by 35%.

Teaching Assistant | Case Western Reserve University

06-2024 – Present

- Appointed to instruct 60+ graduate students in Computer Networks courses, leading lab sessions and offering academic support.
- Assigned to grade coursework for over 120 assignments and offer detailed feedback, deepening students' understanding of networking concepts.

HCLTechnologies | Software Engineer, Full Stack .Net Developer

09-2022 – 12-2023

- Architected and implemented functionalities for two projects involving a web application for issue reporting via a Teams chatbot and a service for password management using WCF.
- Integrated SSO, developed chatbot using Google bot services and linked to Azure Active Directory.
- Engineered SAST and DAST report analyses to bolster security, utilized Web APIs for Self-Service Password Reset (SSPR), and documented processes to support team collaboration.
- Collaborated with cross-functional teams, showcasing leadership and problem-solving in delivering solutions.

SKILLS

Data Structures and Algorithms

Languages: C#, Python, Java, Advanced SQL.

Cloud Platforms: Microsoft Azure, AWS ,S3.

Web technologies: jQuery, Angular, REST API's, Node.js, AJAX, Express.js, Bootstrap.

Database Management: SQL, MongoDB, MySQL, SQL Azure Database.

Libraries & Frameworks: ASP.NET, Entity Framework Core, NumPy, Pandas, Seaborn, Matplotlib.

Cloud Services: Azure Compute, Azure Active Directory, Azure Storage, Azure PaaS Services (App Services, Web APIs)

AI/ML Technologies: TensorFlow, PyTorch, Scikit-Learn, OpenCV, NLP, Hadoop.

Software/Developer Tools: Dockers, MATLAB, Git, Visual Studio Enterprise, Visual Studio Code, Postman, Active Directory, Google Suites, Power BI, Virtual Machines, Web API, SQL Azure Database, MySQL server.

CERTIFICATIONS

- Docker (LinkedIn) | C# (Microsoft) | API Student Expert (Postman) | Data Science (Cisco) | Artificial Intelligence (Salesforce)

PROJECTS

Halo Harbour | Python, Flask, React, Java, AWS (EC2, Nitro Enclaves), Federated Learning, DIDComm Protocol

09-2024

E-commerce Pie Shop | C#, ASP.NET Core, MVC Architecture, Entity Framework Core, MySQL, Web APIs

05-2024

Contact Management Application | Angular, API's, Net, MVC Architecture, MySQL, PostMan, JavaScript

01-2024

Real-Time Chat Application | C#, ASP.NET Core, SignalR, React.js, Bootstrap, WebSockets.

02-2023

HCL project - Reset station | C#, ASP.NET, MVC Architecture, MySQL, Azure Active Directory, PostMan, API's, VM.

01-2023

Clubs & Volunteering

Non-Profit Volunteer | College Food Pantry

- Organized weekly distribution of 500+ meals, leading a team of 15 volunteers and managing two donation drives, raising \$5,000+ in resources.

ISF CWRU | Member, International Student Fellowship |Case Western Reserve University

- Facilitated 10+ events for 200+ international students, boosting participation by 20% and facilitating mentorship for smoother student integration.

IEEE Leader | Lendi Institute of Engineering and Technology

- Led 10+ technical events for 150+ participants, and mentored a team of 12, fostering skills in electronics and communication engineering.

