

Hammad Afzal

Driven and innovative cloud network engineer, fusing passion and expertise to craft robust, scalable solutions that propel business growth.

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EDUCATION

University of California, Berkeley

Aug 2018 - May 2023

- B.S. Electrical Engineering and Computer Science
- Relevant Coursework: Data Structures, Software Engineering, Databases, Design and Analysis Efficient Algorithms, UI/UX

University of Pennsylvania

Summer 2018

- Engineering Pre-Collegiate Diploma in Computer Science

PROFESSIONAL EXPERIENCE

Wanclouds, Cloud Network Engineer

Jul 2023-Present

- Developed Golang-based microservices for communication with various IaaS for application life-cycle management.
- Conducted comprehensive code reviews to ensure quality and adherence to best practices.
- Tested, maintained, and improved existing software systems for better efficiency and effectiveness.
- Contributed to the design and optimization of software architectures, focusing on improved performance and scalability.

Timeless-Treasures, Co-founder | Software Engineer

Jan 2023-Present

- Conceptualized and executed an innovative social media app, prioritizing accessible UI to empower senior citizens to share wisdom, stories, and recipes, bridging the generational communication gap.
- Led thorough task and competitive analysis, contextual inquiry, and heuristic evaluation leading to efficient development, delivering **80%** of core functionalities within a week while maintaining a strong focus on accessibility.
- Promoted and advocated for user-centric design for seniors by attending conferences and submitting papers, contributing to an increase in HCI research dedicated to this often-overlooked demographic.

LESCO, Software Engineering Intern

Jun-Aug 2022

- Implemented CIBS (Customer Information Billing System) by adapting the open-source COMPIERE (ERP and CRM) server, utilizing Java and electric meter snapshots, which reduced over-billing by **80%** for **5.8 million** consumers.
- Transitioned HR & Admin modules from COBOL to Oracle DB-based CIBS, streamlining processes.
- Oversaw data entry, integration, and processing during transition, ensuring smooth implementation.
- Promoted a paperless approach, centralizing data, reducing labor intensity, and championing eco-friendly practices, resulting in significant time and energy savings.

Ibex Global, Database Administration Intern

Jun-Aug 2021

- Assisted developers in crafting complex SQL queries and procedures to meet data analysis deadlines.
- Delivered timely reporting on sales & performance-based metrics, contributing to a **20%** increase in product sales.
- Advised management on statistical techniques and principles for enhanced decision-making.
- Achieved an **18.5%** reduction in service cancellation rates through effective guidance and strategic recommendations.

PROJECT (SaaS)

WebSocket-ChatApp

- Developed a multi-user chat application using the Gorilla Mux web framework in Golang, enabling real-time communication across users and integrating with a SQL database for message and user information storage.
- Architected the system using microarchitecture principles, exposing RESTful endpoints for account management and chat functionality, further tested with POSTman to ensure seamless user experiences.
- Incorporated Swagger for API documentation, ensuring clarity and ease-of-use for developers interfacing with the application.
- Automated the deployment process by crafting a Dockerfile for the application, allowing easy containerization of both the chat app and its database, complemented with a comprehensive Makefile for streamlined build and deployment.

TECHNICAL SKILLS

Proficient: Java | Golang | Python | SQL | VB.Net | Heroku | Swagger | Git | RESTful API | Docker | POSTman

Others: JavaScript | MongoDB | Node.js | Maven | React | Gorilla Mux | jQuery | C | RISC V | HTML | CSS | Bootstrap