Hammad Afzal

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EDUCATION

University of California, Berkeley   Berkeley, USA

Bachelor of Science, Electrical Engineering and Computer Science (EECS)   Expected Graduation: May 2022

Relevant Coursework: Data 100: Data Science (**Python, SQL**), CS 61B: Data Structures (**Java**), CS 61C: Computer
Architecture (**C, RISC V**), CS70: Discrete Math, CS 170: Algorithms, CS 186: Databases,
CS 169: Software Engineering (**Ruby on Rails**), CS 160: UI/UX Design (**Android Studio**)

University of Pennsylvania   Philadelphia, USA

Engineering Pre-Collegiate Diploma in Computer Science   June 2018 – August 2018

Yale University   New Haven, USA

Global Scholars Program in Sustainable Development & Social Entrepreneurship   June 2017 – July 2017

SKILLS

Languages: Java, Python, C, Ruby on Rails RISC V, VB.Net, SQL, HTML5, CSS3

WORK EXPERIENCE

Ibex Global   Washington DC, USA

Information Database Administration Intern   June 2021 – August 2021

- Managed multiple deadlines for the data analysis and timely reporting of sales & performance-based metrics
- Assisted developers in writing complex SQL queries and procedures to create business cases for development of product sales (20%)
- Educated the management about the statistical techniques and principals that resulted in a 20% decrease in cancellation rate of services

Lesco   Lahore, Pakistan

Database Engineering Intern   June 2020 – August 2020

- Developed online digital system to replace manual paper filing in government offices for installing new electrical connections via company website used by 100,000+ citizens
- Implemented Enterprise Resource Planning (ERP), a database system, to facilitate 24,700 clients and employee exchanges for development requests
- Redesigned billing system by developing application that uses snapshots of electric meters to provide error-free measurements to 4.5 million consumers and significantly reduce over-billing

RESEARCH EXPERIENCE

Lawrence Berkeley National Laboratory   Berkeley, USA

Research Assistant (Nanotechnology)   January 2019 – August 2019

- Helped in the development of carbon-nanotube based sensors to monitor various elects of human body
- Designed circuits for multi-analyte carbon nanotube-based biosensor array
- Optimized software and introduced efficient algorithms for data analysis

AWARDS AND LANGUAGES

Awards: Certificate of Distinction & medal of merit given by the University of Waterloo in Euclid
Mathematics competition, Bronze medalist International Kangaroo Mathematics Competition

Languages: English, Urdu, Hindi, Punjabi