HAMZA ZAFAR

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Skills

- JavaScript | React | Node | TypeScript | Express | Next | Redux | Java | Spring | PHP | Python | Git | C# | C++ | C | MongoDB | MySQL
- AWS | GCP | Cloud Computing | CI/CD | JUnit | Jest | Cucumber | Mockito | Unit Testing | Lambda | OOP | Redis | Docker | Kubernetes
- Microservices | Firebase | Heroku | React Native | Azure | MQ | Agile | Jira | TDD | Frontend | Backend | Full-Stack | English, French

Experience

Senior Software Engineer   **GeeksPod**   *USA, Remote*   **06/2022 - Current**

- Leading the design and development of a startup product containing multiple microservice applications, driving more than $1 million of revenue every year using the latest technologies of **React, Next, Node, Typescript, AWS, Docker, and MySQL.**
- **Engineering lead** for designing and implementing scalable APIs for the product using Node**, Java, Lambda, Serverless**, and other AWS cloud technologies that serve thousands of requests daily.
- Revamped the entire architecture from **Monolithic to Microservices** to help the company build for the next thousand tenants, improved the efficiency by 60% and made the product more scalable.
- Automated the mobile application build process using AWS Fargate, ECS, and SQS, reducing the app build time from **15 to 7 minutes**.
- Refactored the entire codebase to comply with the **GDPR** guidelines, potentially saving the company $2 million in taxes.
- Designed and implemented the Plugin architecture for the product, enabling it to connect with other apps using NodeJS and **gRPC**.
- Continuous Integration/Deployment, Pipeline Integration, pull requests, code reviews, A/B testing, unit/integration/e2e testing.

Software Engineer   **UWorx**   *Pakistan, Hybrid*   **07/2020 - 05/2022**

- Designed and implemented enterprise applications of the UK's largest retail platforms (Marks & Spencer, Waitrose, Woolworth), driving monthly revenue of $1 billion using **Java, Spring Boot, GCP, MSSQL**, and Angular.
- Migrated the entire UI for self-checkout solutions from NCR to Diebold Nixdorf, resulting in a 40% increase in efficiency.
- **Reported directly to CTO:** Lead to automate the API documentation process using the Redocly **OpenAPI**, reducing the time by 95%.
- Developed and integrated a Payment solution (Sparks Pay) from scratch, helping customers with secure, effortless, and quick checkouts.
- Initiated monthly development chapter to empower developers to learn about new technologies and introduce smart coding methods.
- Collaborated as a member of the recruitment panel and engaged directly with the CEO, increasing the company's headcount by 50%.
- Improved the automated testing coverage from 60 to 100 percent by adding cucumber, selenium, and unit tests.
- Reduced API fetching time in the POS application product selection screen from 6.0 to 0.1 seconds by re-writing complex SQL queries.

Software Developer, Contract   **AcroDyna**   *USA, Remote*   **01/2019 - 06/2020**

- Designed and implemented Licensing as a service application using PHP, Bootstrap, MySQL, and **Azure**.
- Developed and integrated complex Machine learning solutions into crypto and forex trading bots.

Software Engineer, Intern   **MQL Dev**   *Pakistan, On-site*   **06/2018 - 08/2018**

- Developed prediction systems and machine learning algorithms using **Python**.
- Accomplished the **'Best Intern'** award.

Education

Bachelor of Computer Science   **FAST-NUCES**   *Islamabad, Pakistan*   **07/2016 - 07/2020**

- GPA: 3.85/4.0 (Magna Cum Laude).
- Ranked in the **Top 1%**.

Projects

- **ScanFee:** Engineered an online printing service web application for a startup company (ReactJS, NodeJS, MongoDB, Heroku). **(06/2022)**
- **Keos:** Designed and developed a SaaS product for a startup (ReactJS, NodeJS, MongoDB, GCP). **(07/2022)**
- **RGB Place:** Developed a crypto-related web application from scratch (ReactJS, Heroku, Git). **(03/2022)**
- **Visual Assistant:** An open-source project based on ML algorithms to help blind people understand their surroundings. **(06/2020)**
- **MT4 License Server:** Designed and developed a Licensing application that is being used to monitor thousands of clients. **(04/2020)**

Others

- **Judge Speed Programming:** Invited to judge the Speed Programming competition held by ACM. **(03/2022)**
- **ACM Speaker:** Delivered several seminars held by ACM as the keynote speaker. **(11/2021)**
- **Advisory Member FCAP:** Programming | Data Structure and Algorithms | Career Advice | Mentor to SWE students. **(06/2017 - 07/2020)**
- **Silver Award:** Awarded upon securing the second position among the entire graduating batch. **(07/2020)**
- **Developer Circle Membership:** Facebook Developer Circle member. **(06/2018 - 07/2020)**