Mohd Zaid Sarwar

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EDUCATION

Inderprastha Engineering College, Ghaziabad   **Aug '19 - Jun '23**

Bachelors of Technology in Computer Science and Engineering │ Percentage: 78.2

Sarvodaya Bal Vidyalaya, Jafrabad   **Jul '16 - Mar '18**

12th - Physics, Chemistry, Mathematics (PCM) │ Percentage: 75.8

EXPERIENCE

Software Engineer   **Mar '23 - Present**

Colorplast Systems Pvt. Ltd │ Noida

A renowned digital card manufacturing based in India, Colorplast supports industries like finance, banking, telecom, retail, healthcare,& transport to offer unrivalled user experiences.

Javacard

- Developed **SIM** and **USIM APIs in Java,** enhancing the **functionality** and **interoperability** of **SIM** applications**.**
- Developed the **Get-Status command** in **Java**, enabling retrieval of **SIM** or **SIM application** status for better monitoring**.**
- Optimized **load command** in **Java**, achieving a **65% reduction** in processing time for **enhanced performance.**
- Implemented the **C-MAC security algorithm** in **Java**, **securing GP command**s and ensuring **data** integrity.

OASIS

- Developed **EAP** (**Extensible Authentication Protocol**) features in **C**, contributing to secure **SIM authentication** processes**.**
- Developed **GBA** (**Generic Bootstrapping Architecture**) features in **C** to support secure **network** access and **authentication.**
- **Designed** an **event registry system** to manage **events** and notifications effectively.
- Developed the **SHA security algorithm** in **C** for data **encryption** on **SIM cards**, enhancing **data** protection**.**

AMUNRA

- Developed the **Get-Identity** command in **C**, a key feature for **5G technology**, improving device identification capabilities**.**
- Developed **Suspend and Resume** features in **C**, ensuring efficient management of **SIM application states.**

SIMGUARD

- Developed **SimGuard**, a **testing tool** in **C#** and **.NET**, designed to **automate** the **testing** of **SIM card** features such as **OTA.**
- Implemented functionality to **generate** and **send commands** to **SIM cards automatically**, streamlining the **testing process** and **enhancing efficiency.**
- Enabled comprehensive **testing** and **validation** of **SIM features**, improving **reliability** and **performance** in **production environments.**

Web Developer Intern   **Oct '21 - Nov '21**

Spark Foundation │ Noida

The sparks foundation is working to bring parity in education, making sure children have equal opportunity at success.

- Developed an **interactive user interface** where the user can easily donate money using **RazorPay**.
- Successfully completed this website, with technology involving **HTML, CSS, JavaScript**.

PROJECTS

Google Keep Clone   [source]

- Developed an interactive **web based application, Google Keep clone** using **React.**
- Used React **props, hooks,** and **material-ui icons** to create a **dynamic** and **interactive user interface.**
- The features allow user to **add, edit,** and **delete notes.**

Drum Kit [source]

- Designed and implemented an engaging **web-based drum kit application**, enabling users to **play various drum sounds**.
- Created interactive drum pads and i**ntegrated sound effects**, providing a realistic drumming experience.
- Applied front-end development best practices to ensure **smooth performance and responsive design** across various devices.

TECHNICAL SKILLS

C/C++,	Java,	C#,	DotNET,	JavaScript,	SQL,	ReactJs,	SpringBoot,	Jsp Servelt,	Networking
UICC,	USIM,	ISIM,	OTA,	ETSI Standards,	3GPP Standards,		Global Platform,	VsCode,	Keil