

Rukhsar Rashid Khan

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EDUCATION

- Master of Science, Computer Science (CGPA: 3.85/4),** Dec 2023
Stevens Institute of Technology, Hoboken, United States
Relevant Courses: Web Programming, Algorithm Design & Implementation, Engineering Python, Cyber Security
- Bachelor of Engineering, Computer Engineering (CGPA: 8.04/10),** May 2019
Mumbai University, Mumbai, India
Relevant Courses: Data structures, Object Oriented Programming, DBMS, Software Engineering

SKILLS

Programming languages: Golang, Python, Kotlin, Java,
Web Technologies: ReactJS, Redux, NodeJS, ExpressJS, AngularJS, JavaScript, GraphQL, HTML5, CSS,
Database Technologies: Cassandra, MySQL, MongoDB, Snowflake,
Technologies/ Framework: Kafka, Github, Jira, Jenkins, Docker, Microservices, Agile, REST, JSON, JQuery,
AWS Services: S3, Lambda, Cognito, IAM, Glaciers, EC2, SNS, SES, Cloudwatch,
Operating Systems: Windows, Linux, Unix, Android

PROFESSIONAL EXPERIENCE

- Graduate Peer Leader, Stevens Institute of Technology** Aug 2023 – present
• Nurtured **peer-mentor** bonds by actively maintaining consistent communication with mentees.
- Digital Technology Intern, Star Union Dai-ichi Life Insurance Company** Jun 2023 – Jul 2023
• Enhanced "YouMatter" **Android** app's Home Screen using **Java, Kotlin** and **XML** in **Android Studio**, resulting in a **25%** boost in user engagement and improved navigation efficiency
- Senior Software Engineer (Full Stack), ConnectWise LLC** Jul 2021 – Jul 2022
• **Led a 6 member** team to develop a **React JS** based Endpoint Detection & Response product, facilitating **vulnerability scanning** via **OVAL** definitions and delivering a robust security portfolio to **400+ partners**
• Architected **Golang** and **Cassandra** backend **microservices**, employing optimized plugins, **GraphQL**, **REST APIs** and **Kafka** for **30%** quicker responses and **40%** boosted system efficiency in seamless device scanning
• Created a Ansible - Jenkins **CI/CD** flow for **6 Golang backend** microservices and **3 frontend UI** repositories, achieving a flawless software integration phase with zero rollbacks and roll forwards
• Directed over **30** exceptional partner releases, leveraging **Graylog** for monitoring and debugging
• **Communicated** across 10 cross functional team and coordinated a defect free product delivery
- Software Engineer - I (Full Stack), ConnectWise LLC** Jul 2019 – Jul 2021
• Achieved NIST cybersecurity compliance for over 500 partners by developing interactive forms for a Risk Assessment tool utilizing **Angular JS**, **MySQL**, and **NodeJS**
• Applied **Agile SCRUM** methodologies and employed **Github** across **5 projects**, thereby strengthening product **SDLC**
• Designed and presented **log retention** architecture to over **20 stakeholders** for archiving partner data using **AWS services**, including **Glacier**, **SNS** and **S3 buckets**, and **FortiSIEM** to ensure data retention for audits
• **Automated ticket** workflow for incidents detected in SentinelOne **SIEM** using **Golang**, enabling NOC technicians to eliminate manual monitoring, resulting in a **50% increase** in productivity
• Constructed **PySpark** scripts for seamless data transfer from **Cassandra** to **Snowflake**, accelerating data persistence and **Looker** integration, leading to actionable product usage insights

PROJECTS

- Nurture Nest, Stevens Institute of Technology, Hoboken** Jan 2023 – May 2023
• Guided a **5-person** team in efficiently **managing** tasks and overseeing the **MERN** web project, which streamlines child management, nanny hiring, and parent-nanny communication for enhanced childcare experiences
• Implemented a Register and Login system leveraging **ReactJS**, **JavaScript**, **Redux** and **Firestore** ensuring smooth authentication with **Google Sign In** and **Forgot Password** functionalities
• Integrated **Socket IO** for chat between **two or more** users and designed **MongoDB** database model for application
- Nirwana-Escape from reality, Stevens Institute of Technology, Hoboken** Aug 2022 – Dec 2022
• Achieved creation of a feature-rich **ReactJS** application enabling song playback, playlist creation, and song sharing
• Led development of the **Admin** portal, driving the seamless song uploading to **S3** within a robust **NodeJs** backend
• Successfully executed the implementation of **Redux** to effectively manage data flow across components, designed a streamlined Mongo data model, and expertly handled **Authentication** and **Authorization** through **JWT**
- Human Drowsiness Detection System, Mumbai University, India** Jul 2018 – Jul 2019
• Developed a model combining **ML**, **DIP**, and **OpenCV** to determine if a driver's drowsiness might pose an accident risk by detecting the pupil to eyelid ratio and sending timely alerts
• Utilized **Python** to generate real time behavioral patterns, with seamless updates through **Firestore** integration
• Published a paper in an International Journal (**IJEAT**) in April 2019, Volume 8, Issue 4