

# Rohan Sanjay Shahane

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## EXPERIENCE

Amazon | Seattle, WA, USA [Remote]

May 2020 – Jul 2020

### Software Development Engineer Intern

- Built a software tool called 'Interactive SAIL Explorer' **from scratch** written in **Typescript** based on the **ReactJS** framework.
- This serves as a developer tool for Amazon's under-development cross-platform UI templating language.
- Developed a mechanism to allow users to decompose the SAIL element at any level and highlight the respective HTML representation of that SAIL element on hovering.
- **Reduced development time** for developers of various platforms by providing debugging features at each layer of abstraction

Aptify Software Development Solutions | Pune, MH, India

Aug 2018 – Jun 2019

### Software Developer

- Worked in a client services team of 5 to conduct the upgrade of the client's production environment.
  - Assisted clients from USA and Australia to fix major bugs/issues and fine-tuned software to suit their requirements.
  - Developed tools in **C#** in conjunction with **Microsoft SQL server** and **.Net framework** to optimize upgrade process and preemptively identify issues in upgrade process which resulted in streamlining the upgrade and saved time.
  - Prototyped an **Amazon Alexa skill** for Aptify's HR team to reduce time spent and improve onboarding experience.
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## EDUCATION

University of Florida | Gainesville, FL, USA

Aug 2019 – May 2021

**Master of Science**, Computer Science

Coursework – Analysis of Algorithms, Distributed Operating Systems, Computer Networks, Database System Implementation.

University of Pune | Pune, MH, India

Aug 2014 – May 2018

**Bachelor of Engineering**, Computer Engineering

Coursework – Design and Analysis of Algorithms, Data Structures and Problem Solving, Operating Systems.

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## Projects

### BookStore – E-Commerce website for shopping books

Java, Spring Boot, REST APIs, JavaScript, MS SQL Server, HTML, CSS

- Implemented an e-commerce website using RESTful web APIs using Java and Spring boot.
- Features include signing up/signing in, browsing the books catalog and purchasing the books as available in the inventory.

### Database Engine

C++

- Developed a CLI based database system in C++, with ability to perform relational operations like select, project, and join.
- Ability to store data in heap and sorted file, computing statistics needed to perform query optimization and execution.

### Twitter engine

F#, AKKA.NET

- Developed a Twitter clone to simulate Twitter's backend using Actor modeling in F# and AKKA.net framework.
- Provided several functionalities such as Create account, Login, Follow Users, Send Tweet, Retweet, Query Hashtag and user mentions. Simulated 10,000 active users (actors) on a single machine.

### FTP File transfer implementation

Java

- Built a multithreaded FTP file transfer client and server using socket programming in Java.
  - The client will be authenticated and afterward query the available files on server to download a file or it can upload a file.
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## Technical Skills

**Programming Languages:** C++, Java, TypeScript, JavaScript, C#, F#.Net, C, Python, HTML5, CSS.

**Frameworks and Tools:** .Net, ReactJS, AKKA.net, MS SQL Server, Git, GitHub, Latex.

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## Publications

**New Approach to Wireless Data Transmission Using Visible Light** | *Institute of Electrical and Electronics Engineers (IEEE)*