

# Shivang Suchak

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## Summary

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- 2+ years of experience as a MERN stack Software engineer building RESTful micro-services, interactive and user-centred front end. Masters' degree in Software Engineering focused in Product Development Life Cycle which enabled high skills in software development, requirements gathering, and agile development

## Technical Skills

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- Languages: JavaScript, Node.js, Python, HTML5, CSS3
- Databases: MongoDB, SQL, Firebase
- Frameworks/Tools: React, Microsoft Bot Framework, Microsoft Azure, Websockets, AWS, Git, Scikit-learn

## Education

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### Master of Software Engineering

Pennsylvania State University, PA

GPA: 3.61/4.0

May 2021

### Bachelor of Technology, Instrumentation & Control

Nirma University, India

June 2016

## Work Experience

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### Pennsylvania State University

Software Research Assistant

Pennsylvania

Nov 2019 - present

- Built an exercise recommendation website using HTML5, CSS3, and JavaScript ES6 for research carried out by the professors of the Psychology department at Concordia University
- Implemented React components to update only the changed data instead of the entire Document Object Model upon refresh after new incoming data
- Responsible for the major accessibility features implementation for improved experiences for elderly people
- **Technologies:** React, JavaScript, HTML5, CSS3

### IoTReady Pvt Ltd.

Full Stack Developer

Bengaluru, India

October 2017 - June 2019

- Led the development and management of the Chatbot *Dara*, built using Microsoft Bot Framework, Facebook Messenger API, React, and HTML5 on the client-side to enable collaboration between various artists
- Built RESTful micro-services for admin and artists to provide dialog services for communication via bot using Node.js, and MongoDB to store the users' information
- Optimized the artists' skill-based matching algorithm to improve the conversion of connection suggestions by 21%
- Secured 3<sup>rd</sup> position in the 2018 Developer Circles Community challenge by Facebook
- **Technologies:** React, JavaScript, Node.js, MongoDB, Microsoft Bot Framework, Facebook messenger API, HTML5

## Academic Projects

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### Virtu-NA

- Created a React-based Facebook messenger bot by using Facebook graph API to login for Narcotics Anonymous(NA) users to safely and anonymously chat in their respective NA groups in case of inaccessibility because of revoked driver license or disability
- Implemented a zip-code-based suggestion with visualization using React, HTML5, server management using Node.js and Firebase for users who can attend in-person meetings
- **Technologies:** React, JavaScript, Node.js, WebSockets, HTML5, Facebook Login API, Firebase

### Weave - an Employee Engagement Tool

- Improved 25% employee satisfaction by building a React-based web application
- Implemented features for employees that include the ability to list and search skills as well as connect with relevant people via the internal Slack channels using AWS Lambda
- **Technologies:** React, JavaScript, AWS Lambda

### HTTP Live Streaming(HLS) Validator

- Developed a playlist content validator to determine whether the audio file URL is playable by the device using object-oriented and recursion concepts in Python
- The validator acts as an audio file compiler by identifying and reporting any deviation with the standard HLS protocol for multimedia representation
- **Technologies:** Python