JOE ZHOU

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EXECUTIVE SUMMARY

- Dedicated and meticulous team leader, able to assimilate quickly to new working environments
- Strong interest in the use of technology in the field of business, accepted into Information System SMU 2024
- Utilised free time during national service to self-learn programming, acquiring proficiency in web development
- Fast learner and passionate in hands-on learning, currently working on SAP S/4HANA, BTP and Fiori Apps

KEY ACHIEVEMENTS

SAP C_CPE_14 BTP Extension Suite Certified
President Scout Award • Chief Commissioners Award • Edusave EAGLES Award

SKILLS

Backend:
JAVA • Spring • Springboot • Express • Python • Node.js

Frontend:
HTML • CSS • JavaScript • React • Angular • Vue • Fiori • SAP UI5 • Boostrap • Tailwind

Database:
MS SQL • MongoDB • MY SQL • PostregSQL • Firebase • SAP HANA Cloud

Software:
SAP BTP BAS • SAP BTP Cloud Foundry • Eclipse IDE for RCP and RAP Dev • SAP Build • Git

PROFESSIONAL EXPERIENCE

Avensys Consulting -- Full-stack Java Developer (Jul 2023 – Present)

Completed the Hire, Train and Deploy program, given video resources to self-learn Java full-stack development

- Completed full 3 months course and milestone project (Project 1- Social Media Platform) within 1 month of self-directed learning
- Utilised previously known knowledge to speed-up learning through tutorial projects and applying learnt skills to hands-on project development
- Completed subsequent Project 2 (PO Manager), Project 3 (Project Manager), Project 4 (CV Parser) and Project 5 (Customer Order) independently and passed OJT

Commando Formation (Jan 2022 – May 2023)

Personal Assistant to officers during National Service, overlooking servicemen course and finance matters

- Planned and executed multiple camp-wide events like quarterly birthday celebrations, award presentations and Chief commando ceremony
- Put in place tracking and deadline systems to streamline the nomination of regulars for external courses and dissemination of course materials accurately
- Self-taught Excel organisation and MINDEF EHR (SAP ECC) system functions to keep work accountable and minimise human errors

Suntec Convention Centre (Jan 2020 – Mar 2020)

Internship under marketing manager for 3 months period pre-covid

- Managed Suntec Convention Centre social media by taking post materials for over 40 events and scripting engaging post details for extended public promotion
- Assisted with preparations for annual stakeholder meeting and welcomed prestigious guests during annual Chinese New Year gala dinner

Professional Certification

SAP C CPE 14 BTP Extension Suite Certification
Started BTP development and learning S4/HANA implementation from March 2023
- Achieved total score of 85% from SAP Certification exam

- Self-building CAPM projects for further experience in BTP and its use in extending the capabilities of SAP Cloud Solutions

- Working on a full-stack CAPM with the use of Fiori apps and HANA DB to create an event tracking application

Certification link: (https://www.credly.com/badges/6c0c80b8-2fc9-4b7b-bfc2-bdd99b5464e6/public_url)

Avensys Self-built Projects (https://github.com/Joe-Zhou-Yubin)

All Projects were built independently by myself within a timeline not exceeding 5 working days

Project 1: Social Media Platform (Springboot, React, Firebase)
https://github.com/Joe-Zhou-Yubin/AvensysSocialMedia
Social Media Platform that allows users to post in a global feed, and administrative function to moderate user activity
- Milestone project to consolidate my Full-stack learning and execute a small-scale project in full

- Learnt Database linking, Frontend Backend HTTP Requests and how to plan a project workflow

Project 2: PO Manager (Springboot, React, MongoDB)
https://github.com/Joe-Zhou-Yubin/POManager
PO Manager that provides users with different functionalities to track purchase orders
- Used JWT token authentication and backend Spring security to create session-based user login

- Implemented JWT tokenization, MongoDB repository, DB design and streamlining backend development with Postman

Project 3: Project/ Bug Manager (Springboot, Angular, SQL Server)
https://github.com/Joe-Zhou-Yubin/ProjectManager
Project/ Bug Manager platform that utilises relation tables to provide users with a basic 3 tier project management system
- Project used to consolidate learning on angular and explore SQL Server relation database structure

- Learnt SQL Server Relation Database Design, Angular frontend development and streamlining CRUD function using custom UUIDs and ID identifiers

Project 4: CV Parser (Springboot, MongoDB, MySQL, ChatGPT API)
https://github.com/Joe-Zhou-Yubin/CVParser
Fully Built Backend capable of receiving and parsing multiple resumes through ChatGPT API to filter candidate information
- Implemented Multithreading and Chunking to receive multiple resumes and ways to bypass ChatGPT 15,000-character call limit

- MongoDB Storage for documents, while MySQL relation database to store user and candidate information

Project 5: Customer Order (Springboot, MS SQL, React)
https://github.com/Joe-Zhou-Yubin/CustomerOrder
Customer Order to allow for tracking of customer orders with filtering, pagination and role-based access
- OJT passing requirement, with full stack implemented within 5 days of work

- Pagination on backend and filtering through backend server for easy-to-access user experience

- Backend and Frontend validation for user authentication and authorization

Work in Progress

Learning in Progress: SAP Build. CAI, BTP Integration Suite

SCHOOLING EXPERIENCE

Dunman High School (Secondary and Junior College, 2016 – 2021)
<ins>**Lion Dance Chairperson**</ins>
- Led and choreographed milestone performances including annual CNY celebrations and Sam Goi Factory opening

- Reignited interest in performing arts within the school, leading to a troupe size of 20 at the end of servitude

- Represented Dunman High School in multiple external performances for alumni and Australian Ministry of Education Delegation in 2018

<ins>**Scouts Patrol Leader**</ins>
- Initiated archiving practice to take photos during CCA and digitalize old photos contributed by alumni, leading to a large archive of photos and videos dating back from 1970s

- Started and co-led the creation of BlogSpot to document weekly CCA sessions and serve as an archive for future generations

- Represented Singapore in both regional and international scouting events like the 1st ASEAN Seaboree 2019 and 1st Korean online Jamboree 2021

- Overall-in-charge for Scouts and Guides CCA Exhibition 2019, leading over 200 participating members and saw an increase of 52 members across both CCAs.

- Achieved the first Chief Commissioners award in the past 15 years within the troop and continued to mentor 5 awardees the following year

<ins>**Uniformed Group Council Chairperson**</ins>
- Initiated online CCA during lockdown and utilized resources like educational games and escape rooms to engage juniors

- Planned and executed Uniform Group Week which promoted uniform group CCAs and brought together more than 400 students in activities as the first large scale post pandemic school activity

- Received President Scout Award in 2021 at the Istana, recognizing pinnacle achievement of leadership experience, hard skills and service to community

<ins>**Mass Communication Society member**</ins>
- Researched and edited 10 weekly news episodes over 3 months in partnership with bilingual department to report on current issues during covid lockdown

- Filmed and interviewed alumni and key stakeholders of the school for 65th anniversary commemorative video

- Self-learnt video editing and filmography

PERSONAL PROJECTS

Online Locker/ Pigeonhole Concept (Springboot, React, Firebase)
Basic responsive page that allows users to store different media in different containers that would require password to enter
- Stack has several features, including an overall admin feature to unlock or lock all lockers

- Emulates real-life examples of free lockers at Tampines Hub Running Track, where users are also given options to unlock via unique password or by locker number

Automated Expense Management System (Springboot, React, MS SQL, ChatGPT API)
SUTD Hackathon submission for their 2023 AI and IOT category
- Project prototype implements full stack and one instance of ChatGPT API function as a chatbot for users to have conversations

- Project is built for scalability and is able to implement additional user features like charts for better visualization for data, further instances of ChatGPT API to predict budget and give user suggestions on overspending or budget changes

BTP CAPM Crud Template (Nodejs, Fiori apps, CAPM, HANA db)
Simplified template created using CAPM project that can instantly achieve CRUD capabilities in a table/object format
- Template allows users to easily create a full-stack CRUD page in a few command line functions

- Developer friendly way to approach learning of CAPM through a simple template example of the basics of CAPM projects

Discord Attendance Bot (Quality of Life focus - Python)
Discord bot capable of communicating with Google Sheets database to streamline attendance taking and many other features
- Bot utilises discord.py API to allow members of server to use only 1 command to call in attendance for weekly meetings, set custom reminders or establish point systems for activities

- Information is then logged into Google Sheets using gspread.py API for database storage and administrative use

- Utilised bot during lockdown in CCA sessions as attendance taking takes up too much time during mass calls involving over 100 people

Advanced Image Recognition Macro Bot (Python)
Python bot capable of comparing images taken real time to sample images and establish a confidence value
- Bot utilises numpy.py and matplotlib.py API to screen capture and compare desktop image to stored image and execute a command if confidence level is high enough

- Utilised bot in AlbionOnline, an MMORPG game I played during the lockdown and to automate fishing since it can be repetitive and boring

- Although there already are fishing bots available in market, most depend on sound que to trigger commands, which can be affected by other player interactions. As such, an image grabbing bot would be more reliable with no conditions required to use the bot

Virtual Store in MMORPG/ Open World Games
Established popular in-game vending stores in games like Growtopia and Albion Online from 2018-2019
- Managed day-to-day operations of shops, utilising macro programs to check stock, and excel sheets to track product count

- Established a supply chain network of 5 teams consisting of up to 25 people at its peak, stocking 300 different items daily

- Stock check system was capable of generating gross income/profit statements with a 10% margin of error due to market fluctuation

- Passed down the system to friends in-game for them to better manage their shops and have an accurate way of calculating profits