

JONATHAN TRAN

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EDUCATION & SKILLS

University of California, Irvine

Irvine, CA

B.S. Software Engineering / GPA: 3.76

September 2018 – June 2020 (expected)

- Relevant Coursework: Algorithm, Computer Network, Computer Architecture, Data Management, Data Structure, Human Computer Interaction, Information Retrieval, Operating System, Software Design, Software Engineering, Software Requirements Specification, Software Testing.
- Languages/technologies: Proficient in C++, Python, PowerShell Scripting; familiar with Java, JavaScript, Typescript, HTML, CSS, jQuery, Angular, Ionic, Node.js, JSON, SQL, SQL Server Reporting Services (SSRS), SCRUM/Agile, MS SharePoint, Active Directory, Source Control, JUnit testing, AWS.

WORK EXPERIENCE

Orange County Sanitation District

Fountain Valley, CA

Information Technology Intern / IT Department

January 2019 – Present

- Rewrite a task planner program in PowerShell for internal project with 14 sub-sites and more than 50 users. Add feature to check for inactive users on system by connecting with Active Directory and SQL and send out notifications to program manager.
- Write PowerShell script to search for SQL files (Stored Procedures, Views, Triggers) on Outlook Shared Mailbox, network drives and move all files in one place. Upload into Team Foundation Server (TFS). The script performs 70% faster than manual process.
- Release Microsoft Planner to more than 500 end-users including creating training documents, requesting for change, testing, training end-users, training IT Service Desk, and following up for users' feedback.
- Write PowerShell script to automatically generate Office 365 Group on SharePoint Online including SharePoint site, Shared Mailbox, and Teams for each subsite and migrate them from SharePoint 2013 to SharePoint Online using ShareGate.
- Generate reports that meets users' expectation by connecting to MS/Oracle SQL Server and using SSRS to customize reports.

PROJECTS

Program Booking System for Pacific Marine Mammal Center

Irvine, CA

Developer/Team members

Jan 2020 – Present

- Create an online reservation system that allows users to book programs, make payment, view/cancel reservation, receive email confirmation, payment reminder and allows program manager to create/view/remove programs, view existing reservations, and view reports for marketing purposes.
- Build front-end using Angular, HTML, CSS, Bootstrap, and jQuery.
- Build back-end using Express, Node.js, and connect with SQL Database on AWS RDS.
- Use AWS EC2 to host the booking website, AWS RDS for Database, and AWS SES for Email Services.

Multi-threading Operating System

Irvine, CA

Developer

December 2019

- Develop a multi-threading system in Java that takes user inputs, save to disks, and print information from disks to the printer concurrently.
- Implement using Threads in Java and build GUI in JavaFX.

Search Engine Optimization

Irvine, CA

Team member/Developer

September 2018 – December 2018

- Develop a search engine in Python that fetches data from UCI ICS website using inverted indexing technique and return relevant results based on searching keywords.
- Store and retrieve data from MongoDB.
- Optimize search engine using stemming, lemmatization and other relevant techniques.