JOON CHANG | *SOFTWARE ENGINEER*

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TECHNICAL SKILLS

Languages | JavaScript, HTML, CSS, JSON, Python, C#, TypeScript, Ruby, SQL, KQL
Framework/libraries | jQuery, React, Bootstrap, Node.js, Express, Playwright, Pytest
Tools | Git/GitHub, Visual Studio, Visual Studio Code, Postman, Grafana, Jira, Confluence
Databases | MongoDB, Mongoose, Firebase

PROFESSIONAL EXPERIENCE

Integrations Engineer | *BillGO*   Mar 2022 – Nov 2023
- Designed and maintained biller data integrations using C#, JavaScript, Playwright, and custom tools to ensure data integrity for high-impact biller services and for revenue generation.
- Collaborated with cross-functional engineering teams within Scrum and Kanban Agile frameworks using Jira for planning and meticulous notetaking.
- Took the lead in independently developing new integration methods and procedures for the ICM team.
- Fostered a collaborative working environment by readily supporting teammates with expertise in regex, JavaScript, and Playwright, and by conducting code reviews in JSON and data integrity reviews.
- Utilized data analytic tools (Grafana, KQL) to prioritize integration tasks based on impact and revenue.
- Pioneered the implementation of coding conventions for Playwright integrations, aiming to enhance code readability and provide guidance for new engineers, leveraging Confluence for documentation.
- Authored a Python script and GitHub Action workflow for enhancing PR review transparency, using Pytest for unit testing.

HP Facilities Maintenance Engineer | *S7 Sea Launch*   Apr 2018 – May 2019
- Served as main point-of-contact for multiple projects, including effort to research and recommend new building automation system and maintaining fire code compliance with modification of fire systems.
- Responsible for maintaining facility in "mothballed" condition with reduced personnel and budget.
- Routinely developed and updated procedure documents and instruction sheets for HVAC systems, fire system scheduled inspection checklists, power outage response protocol, and other emergency response procedures.

Facility Engineer | *Energia Logistics*   Jun 2011 – Apr 2018
- Managed several upgrade/rework projects that involved researching applicable regulations, coordinating with the city and port inspectors, finding cost-saving options, reporting regularly to supervisors, and managing vendors.
- Developed comprehensive in-house fire system maintenance program based on local, state, and federal regulations and FM Global recommendations.
- Provided CAD support with AutoCAD, SketchUp, and Visio.
- Created a customized work order system program using Access, VBA, and SQL.

Staff Engineer | *Astrotech Space Operations*   Nov 2005 – Jun 2011
- Supported spacecraft propellant loading operations with preventive maintenance and real-time monitoring/operation of TVDS, vapor scrubber, breathing air monitoring, building automation, and HVAC systems.
- Produced and updated standard operating procedures for mission readiness in the payload processing facility.
- Streamlined data reporting process with EXCEL/VBA macros.

PERSONAL PROJECTS

Projects on GitHub | tetris, scatter, imitation-go, vocabhelper, svgartiste

EDUCATION

The Complete Node.js Developer Course (3rd Ed.) | *Udemy*   2021
HTML, CSS, JavaScript, jQuery, SQL, C++, Python, Ruby | *SoloLearn*   2019 - 2021
Aerospace Engineering, B.S. | *University of California San Diego*   2005