

AKIHIDE TAKEI

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SUMMARY

Software System Engineer with hands-on experience in log analysis, test automation, and machine learning-based problem detection. Proven ability to develop practical tools that streamline workflows, reduce manual effort, and improve system reliability. Seeking a Software Engineering role to leverage technical expertise and drive innovative solutions.

EDUCATION

Sam Houston State University - MS, Computing and Data Science Huntsville, TX | 01/2022 - 12/2023

University of Houston - BS, Computer Science Houston, TX | 01/2019 - 12/2021

SKILLS

Programming Languages: C#, Java, C++, SQL, JavaScript, Python, HTML/CSS

Frameworks & Libraries: .Net, Blazor, React, Node.js, Bootstrap, Tailwind, Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib

Tools and Platforms: VS Code, GitHub, Microsoft Azure, Postman, Keil Studio, Arduino IDE

WORK EXPERIENCE

Software System Engineer - Contractor: Panasonic Automotive Peachtree City, GA | 12/2024 - Present

- Supported EDER process by analyzing system logs and proposing improvements.
- Developed a log-based pattern recognition tool, reducing analysis time.
- Built a BERT-based tool for natural language comparison of issues, improving defect correlation.
- Automated camera switching on head unit monitors, improving test efficiency.

Software Developer - Intern: IntegraShare Solutioneering Inc. Remote | 03/2024 - 06/2024

- Integrated IoT device data into the operational framework and UI; orchestrated .NET with Blazor, including Azure Functions for real-time data retrieval and SQL database synchronization.
- Developed UI components and API integrations, enhancing user experience.

Web Developer - Intern: SHSU College of Arts & Media Huntsville, TX | 08/2023 - 12/2023

- Automated HTML updates from Excel inputs; optimized site maintenance, reducing costs by 60% and improving efficiency by 30%.

Graduate Assistant - SHSU Dept. of Computer Science Huntsville, TX | 09/2022 - 09/2023

- Tested and graded student projects, honing software evaluation and debugging skills.

Student Research Assistant - SHSU Dept. of Computer Science Huntsville, TX | 02/2022 - 08/2023

- Built a stock price prediction model using social media sentiment analysis (52,000+ tweets) with Linear Regression, Random Forest, and Logistic Regression.
- Built a book recommendation system with collaborative, content-based, demographic-based, and hybrid algorithms.
- Analyzed Factors Influencing Extramarital Affairs dataset; applied decision tree modeling to identify key predictors (age, education, marriage satisfaction).

Software Engineer - Intern: Multinet International Inc. New York, NY | 06/2021 - 09/2021

- Elevated cloud databases by applying JavaScript and RESTful APIs, boosting data accessibility, and reporting capabilities, and gaining fundamental full-stack web development skills.
- Developed and maintained a dynamic Power BI dashboard, improving client engagement with real-time data analysis and effective communication of UI/UX requirements.