

# Ryan Liu

Las Vegas, Nevada

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## SKILLS

Programming Languages: C#, Python, JavaScript, HTML/CSS, SQL, Bash, R

Tools: ASP.NET Core, Tkinter, Prometheus, Grafana, Linux, Git, Jira

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## WORK EXPERIENCE

### Software Developer

Academia Sinica, Hilo, Hawaii | May 2023 - Jun 2024

- Utilized **Grafana** to create a remote monitoring system for the Fast Radio Burst (FRB) telescope, enabling real-time data visualization and improving system reliability.
- Developed a **Tkinter**-based plotting GUI to visualize data collection, reducing technical overhead by **40%** compared to command-line interface (CLI) commands.
- Installed **Linux** services for remote task automation, ensuring continuous operations during power interruptions and reducing on-site troubleshooting visits by **50%**.
- Implemented network infrastructure and software for the FRB project, playing a crucial role in the project's initial stages.

### .NET Developer

Puna Rock, Hilo, Hawaii | Dec 2022 - Jun 2023

- Engineered an **ASP.NET Core**-based web application used by multiple teams, adhering to **MVC** principles to enhance application structure and maintainability.
- Optimized **SQL** queries, reducing application loading time by **75%** and improving user experience.
- Developed in-house software solutions, cutting operational costs by **80%** and increasing efficiency.

### AI Research Intern

University of Hawaii at Hilo (NSF Funded), Hilo, Hawaii | Jan 2022 - Dec 2022

- Enhanced a multi-threaded application, increasing processing efficiency by **35%** for **AI** research projects.
  - Improved the Personalized Time Learner algorithm's performance by **40%** using Bayesian estimation with normal inverse gamma priors, reducing annotation time.
  - Utilized **Matplotlib** for data visualization and **TensorFlow** for **machine learning** model development, resulting in enhanced data insights and predictive accuracy
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## EDUCATION

### University of Hawaii at Hilo

Bachelor of Science in Computer Science, Data Science Certificate | Dec 2018 - Dec 2022

GPA: 3.4

Relevant Coursework: Data Structures, Software Engineering I/II, Systems Programming, Numerical Analysis, Database Systems I/II, Artificial Intelligence, Ethical Hacking