Junichi Koizumi

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EDUCATION

Bachelor of Science, Computer Science   **Expected Graduation: December 2024**

Arizona State University – Tempe, AZ

Courses: Data Structure & Algorithms, Object Oriented Programming, Web Development, Distributed Systems, Operating Systems , Foundation of Machine Learning
Awards: GCSP Research Stipend

EXPERIENCE

Favoland AI   **May 2024 – Present**
Software Engineering Intern
Tempe, AZ

- Improved accuracy by **25 %** and consistency by **22%** in the AI model responses for Claude 3.5 Sonnet and GPT-4 when evaluating 55000 unique beauty ingredients, addressing hallucination.

- Implemented Context caching mechanisms for Gemini models, reducing costs by **40%** and improving response time by **30%**.

Arizona State University   **May 2024 - Present**
Undergraduate Researcher

Tempe, AZ
- Deployed survey using Qualtrics regarding user perceptions of the appropriateness, ethical concerns, and potential biases of various candidate attributes in AI-based recruitment.

PROJECTS

Simple Compiler | *C++*

- Designed a C++ compiler supporting nested control structures (if, while, switch, for), utilizing recursive descent parsing and pointer manipulation, validated by 66 test cases.

- Developed an intermediate code generator with linked list architecture and dynamic memory management, translating high-level constructs into optimized three-address code.

SecureBank | *C# | ASP.NET*

- Built a RESTful ASP.NET banking platform with secure user authentication, AES-encrypted transactions, and multi-factor authentication for robust access control and data protection.
- Executed essential banking services such as account linking, transaction processing, and validation using XML data storage.

Dynamic Script Runner | *AWS* | *DynamoDB* | *JavaScript*

- Reduced manual input and improved operational efficiency for uploading scripts by designing an automated process utilizing event-driven architecture in DynmoDB for seamless EC2 script activation.

- Accelerated validation speeds by **30%** to improve application efficiency and user satisfaction by creating an AWS Lambda function for user input processing and data validation and monitoring metrics with CloudWatch.
- Supported application security by utilizing authentication with AWS Cognito to ensure secure access to API endpoints for enhanced private data protection.

TECHNICAL SKILLS

- Languages: Java, Python, C++, JavaScript, HTML, CSS, C#, C
- Frameworks/Libraries: Spring Boot, Node.JS, NOSQL, MySQL, Apache Spark, Git, ASP.NET
- Applications: AWS, Git, Linux, Docker