SAM PARK

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WORK EXPERIENCE

SYNCD   **New York, USA**
Software Engineer   *Jul 2024 – Present*
- Built RESTful API using **Ruby on Rails** and **PostgreSQL,** optimizing SQL query performance by 10%. Ensured code integrity through regular code reviews while following **agile** and MVP methodologies to develop scalable backend systems.
- Collaborated with frontend developers and a product manager to prioritize features, enhancing deployment speed by 20% and improving task tracking, which cut meeting time by 50%.

NEW YORK UNIVERSITY   **New York, USA**
Software Engineer   *Apr 2023 – Jan 2024*
- Developed interactive admin panel with **TypeScript**, **Nextjs**, and **MySQL**, enabling managers to directly manage and analyze data through a web interface, significantly improving upon traditional Excel-based methods.
- Drove the design and implementation of a research portal using **Reactjs**, **MySQL**, **Prisma**, and **REST API**, increasing student-faculty project collaborations by 50% by improving project exploration and faculty engagement.
- Implemented new feedback strategy to engage key stakeholders - DBAs and PMs, reducing revision requests by 25%.

SUN SSC KOREA   **Seoul, South Korea**
Software Engineer   *Dec 2021 – Jul 2022*
- Boosted client engagement by 30% by designing and deploying e-commerce products, newsletter systems, and promotional blog pages using integrations between **Reactjs, JavaScript** and **WordPress** with **GraphQL**.
- Directed collaboration with designers to optimize user interfaces, ensuring seamless alignment between design artifacts and existing system integrations, which led to a 20% reduction in user-reported UX/UI issues.
- Implemented continuous integration and maintained source control via **Microsoft Azure DevOps Server**, resulting in a 30% reduction in integration issues and speeding up release cycles by 15%.

AMAZON   **Seoul, South Korea**
Infrastructure Operations Engineer   *Sep 2021 – Nov 2021*
- Enhanced system uptime by resolving tickets related to System and Network hardware, minimizing physical layer outages, and executing rack installations, ensuring 98% Service-Level Agreement (SLA) compliance.

PROJECTS

MongoDB GenAI Hackathon
- Developed a travel planner that generates customized itineraries using **MongoDB** Vector Search to retrieve relevant travel data based on user preferences.
- Integrated **GPT-4** with LangChain's Retrieval-Augmented Generation (**RAG**) to generate detailed, context-aware itineraries by combining user inputs and latest real-world data.

Detection of Wildlife Animal Trafficking
- Architected filtering model using **Apache Spark** and **Python** to query large-scale datasets, incorporating **AI** image recognition and Large Language Models (**LLM**s) to filter out false positives through data analysis and visualization.
- Led a team, effectively assigning tasks based on team members' strengths, managing project timelines, and ensuring clear communication to deliver results on time.

EDUCATION

NEW YORK UNIVERSITY   **New York, NY**
Master of Science | Computer Science   *May 2024*
- **Societies:** Grace Hopper Celebration (**GHC**) 2023/2024, Google Developer Student Clubs (**Lead Member**), Rewriting the Code (**RTC**), Society of Women Engineers (**SWE**), Society of Asian Scientists and Engineers (**SASE**)
- **Activities:** Teaching Assistant (**TA**) for Database Systems, **CodePath** Technical Interview Prep Advanced (**TIP 103**)
- **Awards:** New York University Merit-Based Scholarship, mini-HackNYU 2023 (Hackathon Track: Lifestyle & Health)

HANKUK UNIVERSITY OF FOREIGN STUDIES   **Seoul, South Korea**
Bachelor of Science | Computer Science | Mathematics (double major)   *May 2021*

TECHNICAL SKILLS

- **Languages:** Ruby, Java, Python, Javascript, Typescript, Go, HTML, CSS, MySQL, PostgreSQL, NoSQL, C, C++
- **Frameworks:** Rails, Reactjs, Nodejs, Spring Boot, Flask, Django, GraphQL, AWS, Hadoop, Linux, Docker, Git