DANIEL SEUNG HYEON RYU

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EDUCATION

Washington University in St. Louis   **Graduation: May 2024**
BS and MS in Computer Science   GPA: 3.9/4.0
Honors: Tau Beta Pi - Engineering Honor Society

TECH STACK

Programming Languages: Java, SQL, Typescript, Python, Javascript, HTML, CSS, Go, Swift, PHP, C++, C#, Solidity
Frameworks: Node.js, React.js, React-Native, Django, Vue.js, Nuxt.js, Express.js, Micronaut
Database: MySQL, MongoDB, PostgreSQL, Elasticsearch, AWS RDS, Firebase
Tools & Platform: Kubernetes, Docker, S3, EC2, Lambda, Kinesis, Numpy, Git, scikit-learn, TensorFlow, Apache, ArgoCD, Vercel, SVN

WORK EXPERIENCE

Software Engineer *@ Ellipsis Travel*   **Jan. 2024 – Current**
Vue.js | Django | Go | OpenAI | Python | Typescript | Node.js | OAuth   *Saint Louis, MO*

- Migrated **microservices** to **Go**, enhancing concurrency in geospatial data retrieval from 30+ APIs, which reduced container image sizes and achieved a 20% improvement in response time.
- Implemented an email parsing feature using **Python**, **Django Celery Beat** and the OpenAI Chat Completion API, automating the extraction and translation of trip confirmation emails into application-compatible objects, improving user satisfaction.
- Crafted **Vue.js** components for enhanced search functionality, using custom directives for better reusability and DOM efficiency, boosting user interface dynamics.

Software Engineer *@ Ellipsis Travel*   **Jun. 2023 – Aug. 2023**
Typescript | Python | Node.js | Vue.js | Elasticsearch | ArgoCD | Kubernetes   *Saint Louis, MO*

- Integrated **microservices** architecture using **TypeScript** and **Node.js**, revamping the server application and achieving a 30% reduction in API latency, leading to faster data processing.
- Streamlined **data ingestion** from multiple API services to **Elasticsearch** with **Python** and **ArgoWorkflow**, enhancing data accuracy and search efficiency.

Teaching Assistant *@ Washington University in St. Louis*   **Jan.2023 – Dec. 2023**
Javascript | MongoDB | MySQL | PHP | AWS | MongoDB | Git | React.js | Node.js | HTML | CSS   *Saint Louis, MO*

- Mentored 20 students in Software Development, focusing on **full-stack web development**, and received positive feedback for improving students' practical knowledge.

Research Software Engineer *@ Washington University School of Medicine in St. Louis*   **Sep. 2022 – Dec. 2023**
Swift | Java | Javascript | React.js | AWS Kinesis | AWS Lambda | AWS S3 | PostgreSQL   *Saint Louis, MO*

- Developed an IoT-based patient monitoring system using **Java** and **AWS** cloud services, tracking over 100 subjects and contributing to a notable enhancement in patient monitoring and outcome analysis.
- Optimized **AWS Lambda** functions and integrated **AWS Kinesis** for patient data streaming, achieving an 80ms reduction in latency and significantly enhancing real-time data analysis capabilities.

Fullstack Software Engineer *@ Object Computing Inc.*   **Jun. 2022 – Aug. 2022**
Java | SQL | Javascript | React.js | Micronaut | PostgreSQL   *Saint Louis, MO*

- Launched a new employee onboarding feature for open-source HR software, reducing onboarding time by 30% and improving the experience for HR managers and new hires.
- Implemented bidirectional **RESTful APIs** for onboarding progress tracking, ensuring accurate and timely data synchronization between the client and **PostgreSQL** database.

PROJECTS

Travelog | project link   **Feb. 2024 – Current**
- Developed a **Vue.js** browser extension that captures and organizes travel destination data encountered by users during browsing sessions, enhancing content discovery.
- Implemented DOM manipulation and text-generation services with **Typescript**, **Node.js**, and OpenAI Chat Completions API.

Pepper Inc. | marketplace | collection website   **Nov. 2021 – Dec. 2022**
- Founded a Web3 brand and led a group of developers and designers in creating an NFT collection.
- Orchestrated a marketplace dApp on the Polygon network, and deployed NFT collection website on an **AWS EC2** instance using **Solidity**, **React.js** and **Typescript.**