

# Hosei Nakajima

2461 Hunters Run Dr., Plano, TX 75025 | 469-926-3139 | hosei.nakajima1@gmail.com

## PROFESSIONAL EXPERIENCE

---

**Infrastructure Engineer**                      **GVT supporting NRI**                      **Dec 2023 - Current**

- Developed **web scrapers** using **Selenium** and ran the data through **ETL pipelines** in **Python**
- Hosted the scraped data on **Oracle Cloud Infrastructure** as the database for an **AIOps** project
- Launched a production-scale AIOps chat bot with **RAG-based LLMs** from **Cohere**
- Implemented a **REST API** for **incident response automation**
- Deployed workflow **automations** in **Python** to streamline routine tasks
- Resolved **network and cloud server** issues remotely and on-site

**AI Quality Engineer**                      **Qualitest supporting Google**                      **May 2022 - May 2023**

- Trained **machine learning** models to classify Google queries into fields of interests
- Performed linguistic and functional testing of localized software
- Quantified trends in Google queries from various devices and fields of interest

**Bioinformatics Analyst**                      **Baylor College of Medicine**                      **Oct 2021 - May 2022**

- Applied **machine learning** on RNA-sequencing data from Age-related Macular Degeneration patients
- Integrated GWAS SNPs and open chromatin data to visualize trends in gene expression in retina
- Developed **ETL pipelines** in **Python** for RNA-sequencing data
- Deployed a **responsive website** for the lab utilizing **RMarkdown**
- **Mentored** a team of students at Rice University on their research projects

**Bioinformatics Analyst**                      **University of Texas at Austin**                      **Oct 2018 - Oct 2021**

- Analyzed RNA-sequencing data from Diamond-Blackfan Anemia patients in **R**
- Identified depression related brain areas using **machine learning algorithms**
- Developed **ETL pipelines** in **Python** for ribosome profiling data

**Data Engineer Intern**                      **Renzo Box**                      **Sept 2020 – Dec 2020**

- Developed **web scrapers** using **Selenium** and ran the data through **ETL pipelines** in **Python**
- Implemented a **MySQL database** with the scraped data on **AWS** as the backend data for an **AI** project

## EDUCATION

---

**University of Texas at Austin, Austin, TX**                      **May 2021**

- *Bachelor of Science in Biology*, Concentration in Computational Biology
  - Certificate in Elements of Computing
  - Certificate in Applied Statistical Modeling

## TECHNICAL SKILLS

- 
- **Languages:** Python, R, Bash, Javascript/HTML/CSS, SQL, Lua, C#, .net, Java
  - **Network:** WAN/LAN, Routing protocols (BGP, OSPF, ECMP), Cisco, Juniper
  - **Databases:** MySQL, SQL+, NoSQL, Postgres, Mongo
  - **Technical Tools:** Git, Linux, Docker, GCP, AWS, OCI, Cron, REST API
  - **Other Tools:** Jira, Confluence, Mattermost, Kanban, Excel, PowerPoint, Word

## LANGUAGES

---

Native Japanese, Native English