# Jinnapat Indrapiromkul

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## Education

**Korea Advanced Institute of Science and Technology (KAIST)** — Daejon, South Korea
*Bachelor of Science, School of Computing* — *August 2018*
- GPA: 3.63, Dean's List Spring 2016

**Georgia Institute of Technology** — (Online) Georgia, Atlanta
*Online Master of Science, Computer Science* — *January 2022 - Present*

## Experience

**Software Engineer** — June 2019 – Present
*Desupervised* — *Copenhagen, Denmark*
- Develop and maintain multiple microservices for alviss.io platform in Python, use Traefik for routing configuration
- Implement pubsub communication among services using RabbitMQ, monitored by Prometheus and Grafana
- Create exploratory data analysis, implement a time-series model with an in-house Bayesian framework and compose presentation for the clients
- Influence the direction of overall software features and architecture designs
- Construct deployment process and deploy the platform at customer sites
- Create and organize documentation and tutorials
- Lead UX/UI designs of the platform and the main webpage

**Test Engineer** — September 2018 – April 2019
*Cisco Systems Thailand* — *Chonburi, Thailand*
- Oversaw test operations in contract manufacturer production line
- Converted legacy test scripts and deployed on new Python test platform
- Improved coding practice in test library developed in the local site

**Software Engineer** — September 2016 – January 2018
*Visma Software International* — *Oslo, Norway*
- Built microservice on Azure Service Fabric using cloud architecture, implemented unit, integration tests and deployed to production
- Developed a new service to integrate multiple data sources and handle variety of data format
- Created a job scheduling application to demonstrate business use case of Azure Service Fabric, presented in an internal R&D Forum
- Implemented sentiment analysis with Naive Bayes classifier and extended NLTKPython library to support incremental training

## Technical Skills

**Languages**: Python, R, C#, Java, JavaScript, Shell scripts, C, Scheme, MATLAB
**Frameworks**: FastAPI, Spring Boot, Azure Service Fabric, .NET, Apache Hadoop, ReactJS
**Tools**: Git, Gitlab CI, Docker, Docker Swarm, RabbitMQ, PostgreSQL, Traefik, Prometheus, Grafana, Terraform
**Cloud providers**: Azure Cloud Services, AWS
**Applications**: Adobe Creative Cloud (Illustrator, Photoshop, Lightroom, Premiere Pro, After Effect)

## Projects

**Evaluation of load balancing mechanism for SDN controllers** | *Java, Floodlight controller, Mininet* — Spring 2018
- Final project for a graduate course in Distributed Systems at KAIST
- Implemented load balancing mechanism for SDN controllers based on functional description in "A Load Balancing Mechanism for multiple SDN Controllers based on Load Informing Strategy" by Jinke Yu et al.
- Created a Python script that used Mininet to build network topology and generate traffic
- Evaluated the algorithm by observing load fluctuations during traffic simulated from real network data

**Systolic array for DNN accelerator** | *Python* — Spring 2018
- Final project for a graduate course in Computer Architecture at KAIST
- Created a simplified systolic array simulator in Python and implemented feedforward algorithm that reflects realistic condition of limited processing elements and memory bandwidth