

BINH PHAM

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EXPERIENCE

KONE

Helsinki, Finland

Data Engineer Intern

May 2024 - December 2024 (8 months)

- **Technologies:** TypeScript, Python, SQL, Terraform, AWS, Databricks Unity Catalog, dbt, Docker, Spark.
- Built reusable cross-environment Terraform modules, efficiently provisioning cloud resources including AWS Glue tables, Unity Catalog schemas, Databricks tables, and access grants.
- Maintained and debugged existing AWS Glue ETL scripts in PySpark, ensuring cost-effective performance and reliable data quality in production environment.
- Provisioned new AWS IAM resources and improved current S3 configurations using AWS CDK, leveraging fine-grained access control and optimizing storage costs.
- Developed and containerized dbt models into Docker images, orchestrated their scheduled executions with AWS Batch jobs, producing Delta Lake tables used for business intelligence.
- Designed and implemented GitLab CI/CD pipelines, automating the releases of IaC updates within data workflows.

Slush

Helsinki, Finland

Junior Software Engineer

September 2023 - December 2023 (4 months)

- **Technologies:** TypeScript, PostgreSQL, Express, React, React Native, Node, Google Cloud Platform, Docker.
- Developed an in-house lunch matching (LM) app to replace third-party service, saving \$5,000 annually.
- Reduced the LM algorithm's time complexity from $O(n^3)$ to $O(n \cdot \log(n))$, space complexity from $O(n^2)$ to $O(n)$.
- Built full-stack features with PERN stack for the administrative system used to monitor all organisation events.
- Implemented key front-end components in the Slush website and mobile app, serving 40,000 users.
- Enhanced the meetings booking feature on the mobile app, decreasing front-end latency by 3 seconds.

ABB

Helsinki, Finland

Data Analyst Intern

January 2023 - August 2023 (8 months)

- **Technologies:** Python, SQL, Azure, Databricks, Power BI, scikit-learn, Spark.
- Created PySpark analytics functions to extract quality metrics from IoT data and visualized insights through Power BI reports, enabling daily monitoring of production data health.
- Developed IO libraries within Databricks environments, streamlining the processes of reading from and writing to Azure Data Lake for the data science team.
- Implemented an ensemble regression model with scikit-learn, predicting data storage costs with high accuracy.

Elisa

Helsinki, Finland

Software Engineer Intern

May 2022 - September 2022 (4 months)

- **Technologies:** Python, SQL, Azure, Databricks, scikit-learn, Spark, TensorFlow.
- Migrated users data from a legacy information model to a refined schema, significantly enhancing accessibility.
- Built out-of-the-box data processing functionalities with Spark for various machine learning workflows.
- Developed automated machine learning solutions to accelerate the models and parameters selection process.

EDUCATION

Aalto University

Espoo, Finland

Master of Science in Computer Science

September 2022 - May 2025 (expected)

- Minor in Security and Cloud Computing.

Aalto University

Espoo, Finland

Bachelor of Science in Data Science

September 2019 - June 2022

- Minor in Computational Engineering.

TECHNICAL SKILLS

Languages: TypeScript (JavaScript), Python, C#, Scala, SQL, YAML, HTML/CSS

Software Engineering: PostgreSQL, MongoDB, Node, Express, Flask, React, React Native, Git, Linux, Docker

Data Engineering: Amazon Web Services (AWS), Azure, Databricks, dbt (data build tool)

Machine Learning: TensorFlow, Keras, scikit-learn, PyTorch, OpenCV