

# Takahiro Mitsui

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## EXPERIENCE

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### Full stack Developer

February 2021 - April 2024

*Face The Facts*

*Berlin, Germany*

- Developed a RESTful API using FastAPI
- Established the database on AWS
- Implemented an Event-Driven Architecture using Redis Pub/Sub
- Created UI using React and Typescript

**App:** FaceTheFacts Politik & Wahlen

**GitHub:** [github.com/FaceTheFacts/backend](https://github.com/FaceTheFacts/backend)

### Backend Developer - working student

June 2023 – December 2023

*Siemens*

*Berlin, Germany*

- Developed a GraphQL API using Flask and PostgreSQL
- Implemented authentication and authorization protocols with Microsoft Azure Active Directory
- Created an Admin Control Panel using Flask-Admin, improving user management
- Developed a full-stack web application to fetch and display prediction data powered by a machine learning model

### Machine Learning Developer

February 2023 – May 2023

*Geospatial ML*

*Berlin, Germany*

- Established a U-Net model for geospatial machine learning tasks
- Developed a convolutional neural network (U-Net) for Semantic Image Segmentation of satellite images

**GitHub:** [github.com/GeospatialML](https://github.com/GeospatialML)

### Frontend Engineer - working student

May 2022 – September 2022

*Foundamental*

*Berlin, Germany*

- Developed a web application using Next.js and Typescript
- Integrated a GraphQL API with Apollo Server

## TECHNICAL SKILLS

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**Languages:** Python, Typescript, JavaScript, Rust, Go, HTML, CSS, SQL

**Frameworks:** Flask, FastAPI, NestJS, Node.js, Next.js, React, schaden/ui, Material-UI, PostgreSQL, MongoDB, Tailwind CSS, TensorFlow

**Developer Tools:** Git, GitHub, GitLab, Docker, AWS, DigitalOcean

**Tech Skills:** RESTful API design, GraphQL, CI/CD, Containerization, Event-Driven Architecture

## LANGUAGE SKILLS

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**Japanese:** Native

**English:** Professional proficiency

**German:** Entry level

## EDUCATION

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### CODE University of Applied Sciences

*Bachelor of Science in Software Engineering*

Berlin, Germany

*July 2020 – April 2024*

### Tokyo Medical and Dental University

*Master of Science in Health Sciences and Biomedical. Molecular Biology*

Tokyo, Japan

*April 2017 – March 2019*