CHAO TANG

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EDUCATION

Eindhoven University of Technology   Eindhoven, Netherlands
MSc. in Data Science of EIT Digital double degree programme, GPA:7.5/10   Aug 2021 - Sep 2022

KTH Royal Institute of Technology   Stockholm, Sweden
MSc. in Data Science of EIT Digital double degree programme, GPA:8/10   Aug 2020 - Jul 2021

Shandong University   Qingdao, China
BSc. in Computer Science, GPA:85/100   Sep 2016 - Jun 2020

TECH SKILLS

- **Languages:**   Java, C#, Python, JavaScript, C++, SQL
- **Tools:**   Git/GitHub, PostgreSQL, MongoDB, Docker, AWS, Jira, Postman
- **Knowledge:**   OOP, RESTful API, MVC, Unit testing, Basic Design Patterns, Agile Scrum

EXPERIENCE

ABN AMRO Bank N.V.   Amstelveen, Netherlands
IT Development Engineer - Detect Financial Crime Team   Mar 2023 - present
  - Work in a Scrum team to develop applications that detect financial crime, using Tibco, Java, JavaScript, etc.

UiPath   Eindhoven, Netherlands
Software Engineer Intern - Process Mining Technology Team   Feb 2022 - Aug 2022
  - Background: **Structured** process models are required for effective deviation detection, but not all user-defined models comply with this standard.
  - Proposed a novel tree-based **data structure** to formalize an unstructured BPMN model
  - Designed an automatic **algorithm** for structuring user-defined BPMN models (i.e., "graph" → "tree")
  - Developed a prototype in **C#**, significantly expanding the scope of process models that UiPath can streamline
  - Used **GitHub** for source code iteration management and **Jira** for development process management

PROJECTS

Competitive Sudoku ⭘
A real-time, multiplayer Sudoku game with AI opponent options   In progress
  - Built **WebSocket** with Django Channels, supporting seamless player-to-player and player-to-AI interactions
  - Implemented **AI strategies** like Minimax, Heuristics and MCTS, to offer players different levels of challenge
  - Leveraged React to create a dynamic and responsive game board, enhancing user engagement

Tourist Information and Reservation Website ⭘
An individual full stack project using Node, Express, and MongoDB   Sep 2022 - Oct 2022
  - Modelled the data relation among users, tours, bookings, and reviews, with Mongoose
  - Built **RESTful APIs** and created API documents using **Postman**
  - Ensured security of register, login, password reset, and authorization by **JWT**
  - Utilized third-party APIs to enhance application functionality: Mapbox, Multer, SendGrid, and Stripe
  - Rendered the website on server side with Pug templates and deployed it to **Heroku**

Backend Web Service for a Simple Bank ⭘
An individual backend project using Golang, Postgres, Docker, AWS, etc.   Nov 2022 - Dec 2022
  - Created and Connected to a PostgreSQL Database on AWS RDS
  - Utilized sqlc to automatically generate CRUD Golang code for interaction with the database
  - Developed a RESTful backend web service (e.g. user authentication, money transfer) with the Gin framework
  - Set up **GitHub Action** to run **unit tests** and push the docker image to AWS ECR automatically

Intelligent Diagnosis of Lymphatic Metastasis for Rectal Cancer
The TIPDM Cup Data Mining Challenge   Apr 2020 - May 2020
  - Trained a U-net network with Pytorch to predict the tumor area of CTs
  - Applied Pyradiomics to extract various radiomics features from each tumor area
  - Established a random forest classifier to diagnose whether lymph node had shifted

AWARDS

- TipDM Cup Data Mining Challenge, National Third Prize   *Jun 2020*
- Contemporary Undergraduate Mathematical Contest in Modelling, Provincial First Prize   *Oct 2019*
- American Interdisciplinary Contest in Modelling (ICM), Honorable Mention   *Feb 2019*