

Zhanghu Zhao

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EDUCATION

University of Helsinki

M.S. in University of Helsinki, Department of Computer Science (GPA:4.64/5)

September 2022 - July 2024

Helsinki, Finland

Soochow University

B.S. in Soochow University, Department of Computer Science and Technology (GPA: 3.8/4)

September 2017 - June 2021

Suzhou, China

WORK EXPERIENCE

Bravori

Junior Software Developer

November 2023 - December 2023

Helsinki, Finland

- Developed over 10+ pages and features for an online Music Education App using **React Native** for the frontend and **Firebase** for storage, aligning with **Figma** designs and **Trello** project management
- Orchestrated regular **Slack** meetings with a cross-functional team of ten members, consisting of developers and designers, to translate design concepts into reliable code and maintain effective communication throughout the development process

University of Helsinki

Research Assistant

June 2023 - November 2023

Helsinki, Finland

- Collaborated seamlessly with professors across multiple disciplines to contribute to cutting-edge New Particle Formation (NPF) research
- Led evaluations comparing traditional **Machine Learning methods** (Logistic Regression, Support Vector Machine, Naive Bayes) with state-of-the-art **Deep Learning techniques** (including AlexNet and Mask RCNN)
- Pioneered the establishment of a novel pipeline for New Particle Formation (NPF) **classification**

PROJECTS

Auction

August 2023 - October 2023

- Designed and implemented backend services in **ASP.NET** with **MongoDB** and **Postgres**, emphasizing secure service-to-service communication with **RabbitMQ** and **gRPC**.
- Developed a dynamic client-side application using **Next.js** and **Typescript**, featuring **SSO** and real-time push notifications via **SignalR**.

Snake

June 2023 - August 2023

- Implemented robust and efficient **WebSocket** connections, enabling seamless real-time communication between the game server and multiple clients.
- Developed secure RESTful APIs on the backend using **Spring Boot**, featuring comprehensive authorization, player matching, and code execution capabilities.
- Crafted an interactive frontend user interface using **Vue.js**, **Bootstrap**, **JavaScript**, and **jQuery** to elevate user engagement and enhance the overall gameplay experience.

Cookify (<https://cookify-dralnmatthew.netlify.app/>)

April 2023 - June 2023

- Spearheaded the development of a full-stack platform, utilizing **Node.js** and **Express** for the backend API and **React.js** along with **Redux** for efficient frontend app state management.
- Designed and implemented a **MongoDB** database to seamlessly store, manage, and process data. Utilized **Cloudinary** for static images storage.
- Implemented authentication security measures by integrating **JSON Web Token (JWT)** and email verification mechanisms.

E-Commerce (<https://dralnmatthew.com/>)

October 2022 - December 2022

- Engineered and maintained the website using **Django**, implementing crucial features such as user authentication and comprehensive product catalog management.
- Integrated the **PayPal** payment gateway and leveraged **AWS S3** for efficient cloud-based file storage.
- Orchestrated the deployment process on **AWS Elastic Beanstalk**, guaranteeing high availability and scalability of the application.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C/C++, C#, R
- **Web Development:** Django, Spring Boot, ASP.NET, Node.js, React.js, Vue.js, Next.js, HTML5/CSS, MongoDB, PostgreSQL, MySQL, Redis, RabbitMQ, OAuth 2.0, OpenIdConnect, SSO, Docker, CI/CD, AWS, GCP, Git, Linux, VSCode, IntelliJ
- **Machine Learning Libraries:** NumPy, Matplotlib, Pandas, Scikit-Learn, PyTorch