

MAHDI RAHIMI

WEB DEVELOPER

Contact

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Technical Skills

- Skilled in **HTML, CSS, JavaScript, React.js**, and **TypeScript**
- Skilled in backend development using **Node.js, Express.js**, and **SQL**
- Experienced in **Docker** and **Git** for deployment and version control
- Hands-on experience with AWS Services: **EC2, Route 53, and Security Groups**
- Capable of configuring SSL using **Certbot** and managing secure servers with **Nginx**
- Experienced in **Python, PHP, and NoSQL (MongoDB)** through university projects
- Applied knowledge of **JWT** for token-based authentication and used the **react-oidc-context** library, built on the OpenID Connect protocol (**OAuth 2**), to enable secure user authentication and authorized connections with third-party servers
- Skilled in using **Vite** as modern packing tools
- Experienced with **Jest** for unit and integration testing.
- Familiar with using **Figma** for designing and collaborating on user interfaces and prototypes.

About Me

I am a dedicated web developer with 2-year experience. My work has focused on designing and implementing user interfaces and server-side functionalities to build efficient and functional web applications. I have developed strong technical skills, effective teamwork abilities, and a commitment to meeting project goals and deadlines. I am eager to continue growing professionally, contributing my skills, dedication, and enthusiasm to your team.

Education

Master Of Information Technology (2020-2023)

La Trobe University - Melbourne, VIC

- 89.7 GPA

Awards

- La Trobe University Student Excellence Recognition
- La Trobe University International Merit Scholarship
- Recognized by the Australian Computer Society (**ACS**) for the successful assessment as a Web Developer, validating my skills and expertise in the field.

Certificates

- HTML Essential Training
- CSS Essential Training
- User Experience for Web Design
- UX Foundations: Accessibility
- JavaScript Essential Training
- React.js Essential Training
- Git Essential Training
- Docker Essential Training
- Node.js Essential Training

Work History

Full-time web-developer

AgriBio Centre for AgriBioScience, Agriculture Victoria

November 2023 – Now

Key Responsibilities:

1_ Update and Maintenance of Genolink Application:

- Regularly gather feedback from users to implement updates and enhance functionality.
- Ensure application stability and reliability through consistent monitoring and improvements.

2_ Development of SPOT Application:

- Designed and developed a centralized data management system for collaboration between Agriculture Victoria and InterGrain.
- Utilized Dolt as the database for version-controlled data management.
- Built the backend using Node.js/Express.js to handle user authentication, data validation, and file uploads.
- Developed the frontend with React.js to provide an intuitive and user-friendly interface.
- Setup SPOT on EC2
- Actively collect and integrate user feedback to release regular updates and improvements.

Achievements:

- Improved the Genolink application by integrating regular user feedback, resulting in enhanced functionality, better stability, and increased adoption by users.
- Designed and developed the SPOT application, facilitating seamless collaboration between Agriculture Victoria and InterGrain through efficient data management using Node.js/Express.js and React.js.
- Successfully deployed the SPOT application on AWS EC2, utilizing Docker and Nginx for secure and optimized server performance.
- Released regular updates for SPOT by collecting and implementing user feedback, improving user experience and operational efficiency.
- Invited to showcase the Genolink application at the International Wheat Conference, emphasizing its significant impact on wheat research and data management.

Casual web-developer

AgriBio Centre for AgriBioScience, Agriculture Victoria

June 2023 – November 2023

Key Responsibilities:

1_ Investigated current genomic platforms such as Gigwa and Google Genomics.

2_ Setup and retrieve data from Gigwa platform.

- Setup a Gigwa server on an EC2 instance
- Investigated Gigwa API endpoints which are responsible for retrieving and filtering genotypic data.
- Successfully sending different requests and retrieving the desired data from vcf files.

3_ Created an application called Genolink to interface with Genesys-PGR and Genomic platforms like Germinate and Gigwa via APIs.

- Directly interacted with the Genesys-PGR support team to get required authorization for using Genesys API
- Built endpoints for interacting with Genesys API to retrieve passport data for desired crops.
- Built a front end using React.js to visualize the results.
- Implemented a Node.js/Express.js backend to communicate with Germinate and Gigwa APIs to retrieve desired genotypic data for crops with specified passport data.

Achievements:

- Investigated and configured the Gigwa platform, successfully retrieving and filtering large-scale genotypic data through its API endpoints.
- Developed Genolink to integrate Genesys-PGR and genomic platforms, streamlining the retrieval and visualization of passport and genotype data using React.js and Node.js.
- Enabled smooth data exchange by creating new API endpoints.
- Set up the Gigwa server on AWS EC2, ensuring secure and efficient data processing for research purposes.

Backend Intern

AgriBio Centre for AgriBio science, Agriculture Victoria

January 2023 - June 2023

Key Responsibilities:

1_ Setup Germinate application.

- Downloaded the client-side and server-side source codes from Germinate GitHub.
- Built the front-end for production environment.
- Deployed the Server on Tomcat using Gradle on AWS.
- Used Certbot to generate SSL/HTTPS certificates for secure communication of the Tomcat- deployed application (Germinate).
- Created Dockerfiles for MySQL and Tomcat server containers.

2_ Investigate Germinate backend:

- Understood where the imported genotype data stored.
- Learnt about different data types stored in the Germinate database.
- Identified backend-API endpoints responsible for importing and exporting genotype data.

3_ Add new endpoints in Germinate backend to:

- Retrieve a list of datasets in the Germinate database.
- Retrieve a list of samples in a dataset.
- Retrieve genotype values for a given list of samples given an interval range of positions or a list of marker IDs.