Muhammad Amrullah Robbani

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SUMMARY

Voracious full-stack web developer who specializes in front-end aspects for 4 years and enthusiastic biomedical engineer with proven skills in ideation, creation, and leadership in 1 internship and several biomedical engineering projects. Interested in biomedical data integration and optimization in sports or eSports to enhance player performance and coaches' knowledge. Led front-end team to refactor company CSR website to increase customer engagement up to 800 users and completed 4 biomedical engineering projects: non-invasive glaucoma detection, wearable ECG, teenager fitness data acquisition, and non-invasive fetal electrocardiogram.

EDUCATION

Institut Teknologi Bandung Indonesia *(2015-2019)* - Bachelor of Engineering, majoring in Biomedical Engineering **(GPA: 3.14)**
ITB is one of the top universities in Indonesia in Natural Sciences and Engineering & Technology.
- *Developed a full-stack website for managing hospital assets and warehouse for Ministry of Health of Malaysia Project*
- *Developed an electrode for wearable electrocardiogram vest and full - stack website and cloud to manage, analyze and display ECG data*
- *Received Asrama Salman Scholarship 2016 and 2017*
- *Received YBP PLN Scholarship*

EXPERIENCE

Suteki Tech *(Education Technology Solutions Startup)* — Bandung, Indonesia
Front End Engineer — Mar 2022 – Present
- Led front-end team for Company CSR Project, developing a website for college student management with data synchronization to The Ministry of Education, Culture, Research, and Technology Indonesia, serving 800+ university users.
- Created company source control documentation, optimizing processes for the main web product.
- Initiated migration from Vue 2 and Nuxt 2 to Vue 3 and Nuxt 3, enhancing performance and aligning with industry standards.
- Initiated development of the company 's private component library based on Vue 3 and Tailwind CSS.
- Conducted code reviews to improve overall code quality.
- Collaborated with backend, product owner, UI/UX, and quality assurance teams from grooming to UAT to ensure delivery of high-quality products.
- Initiated the refactoring of one of the company's products, migrating from JavaScript to TypeScript for improved maintainability and scalability.

E-Life Solution Plt Malaysia *(startup consulting firm for technology solutions)* — Johor, Malaysia
Front End Engineer Intern — May 2018 – Jul 2018
Received return offer at the end of internship
- Worked with a team of other developers on built hospital assets and inventory management systems
- Designed indoor positioning system for hospital assets utilizing Internet of Things
- Develop and build a front-end website to manage, analyze and display assets and inventory usage on the hospital

Databugar.itb.ac.id *(Joint Project of three department in Institut Teknologi Bandung)* — Bandung, Indonesia
Website Developer and Consultant — Feb 2019 – Jun 2022
- As a web development project leader, planned, managed, and supervised the teenager fitness data Management web development, coordinated with the design team, and presented to the client of 2 high school and entire first-year of the university.

Bioelectricity Based Fetal Movement Detector *(Freelance Project)* — Bandung, Indonesia
Research Engineer — July 2021 – Present
- Spearheaded the design and experimentation of biomedical instrumentation for bioelectricity-based fetal movement detectors, aiming for everyday use.
- Collaborated closely with midwives to develop mobile, user-friendly, and precise instrumentation for fetal movement detection.
- Utilized data analysis libraries such as SciPy and others, alongside Python and Google Colab, for comprehensive data analysis.

Robovis Laboratory *(Biomedical Engineering Laboratory in Institut Teknologi Bandung)*　　Bandung, Indonesia
Research Assistant　　Jun 2018 – Jun 2021
- Designed and experimented on biomedical instrumentation for everyday use and collaborated with doctors to develop mobile, user-friendly, precise instrumentation.
- Developed a non-invasive glaucoma detection to acquire and analyze EEG signal and detect glaucoma then display the result on a website.
- Developed a non-invasive fetal electrocardiogram to obtain fetal heart signal and analyze the outcome.

Regista *(Sport GPS tracker and athlete management startup)*　　Bandung, Indonesia
Founder　　Feb 2019 – Present
- Designed and developed a sport GPS tracker for football players to track player vital and performance assessment tools.

Vent-I Ventilator Indonesia *(COVID ventilator project by Masjid Salman ITB)*　　Bandung, Indonesia
Calibration Engineering Volunteer　　Mar 2019 – Jun 2019
- Designed prototype calibrator for newly designed ventilator and High Flow Nasal Cannula (HFNC) for COVID – 19.
- Conducted ventilator calibration and organized related documents to optimize HFNC production cost.

ORGANIZATIONAL ACTIVITIES

President – Pusat Teknologi Tepat Guna (Pustena)　　Dec 2015 – Jul 2018
- Revitalize club and establish club foundation by collecting and implementing important document to plan and extends club life for 4 years
- Recruited 7 new members and designed new training curriculum to develop new member in technology aspects

Syiar Chief – Panitia Pelaksana Program Ramadhan (P3R) Salman ITB 1438 H　　Dec 2016 – Jul 2017
- Led a team to plan and coordinate a Ramadhan Event with up to 20% member performance increase and client satisfaction.

ADDITIONAL INFORMATION

Certifications: Passed level C1 of CEFR by getting 7.5 overall band score on IELTS
Skills:
- Web Development: HTML, CSS, JS, ReactJS, VueJS, NuxtJS, NextJS, PostgreSQL, Nginx
- Data Processing: Python, TensorFlow, Google Suite
- Design: Adobe Photoshop, Krita, Manga Studio
- Language: English

Interests: Biomedical Engineering, Biomechanics, Web Development, Data Analysis in Sport and E-Sport