Muhammad Hasan

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EDUCATION

- **Institut Teknologi Bandung** — Bandung, Indonesia
  Bachelor of Informatics Engineering — *Aug. 2018 – Jul. 2022 (expected)*

WORKING EXPERIENCE

- **Mekari** — Jakarta, Indonesia
  Software Engineer Intern — *Feb 2022 - Now*
  - **MSI**: Worked as a Fullstack Developer on the Mekari Secure ID (MSI) Engineering Team that handles SSO (Single Sign On) in Mekari using Ruby on Rails, Sidekiq, Kong Gateway, VueJs, MySQL, and Docker

- **Traveloka** — Tangerang, Indonesia
  Backend Engineer Intern — *Aug 2021 - Jan 2022*
  - **API Testing**: Mainly working on API testing using Karate Framework, AWS, and Terraform to ensure the coverage of API used in Flight Team
  - **Setup Local Service**: Setting up services in Flight Team with Mountebank, so it can be run and tested locally

- **Sayurbox** — Jakarta, Indonesia
  Software Developer Engineer Intern — *May 2021 - Aug 2021*
  - **Email Notification Warehouse**: Developed email notification for orders in Sayurbox using Java Springboot, so that warehouses will receive an email when an order is confirmed by the system
  - **Fixing Numbering**: Fixing many numbering details in PDF Generator and Content Management System Orders used in Sayurbox
  - **Data Addition**: Developed many various data additions on backend services using Java Springboot, MySQL, MongoDB, and ExpressJS

- **Pinhome** — Jakarta, Indonesia
  Software Engineer Intern — *January 2021 - March 2021*
  - **Content Management System**: Mainly working on backend services for CMS (Content Management System) to deliver forum threads within the internal people. Created using Golang, PostgreSQL, GORM and Kubernetes

ACHIEVEMENTS

- **National Gold Medalist ICPC 2021 - Asia Jakarta Regional**: International Collegiate Programming Contest is an annual multi-tiered computer programming competition among the universities of the world.
- **National Gold Medalist ICPC 2020 - Asia Jakarta Regional**: International Collegiate Programming Contest is an annual multi-tiered computer programming competition among the universities of the world.
- **Gold Medalist GEMASTIK XIII - Programming Category**: GEMASTIK is an annual national IT competition event. It has multiple competitions, one of them is the programming category. This event was held by The Ministry of Research and Technology of Indonesia
- **1st Winner IYCL Vol. 1**: IYCL (Indonesian Young Coder League) is a competition for young engineers to show off and prove their coding skills with others from around Indonesia
- **Ganesha Karsa Awardee 2021**: Ganesha Karsa is an award given by Institut Teknologi Bandung every year for getting national or international achievement representing ITB in the field of scientific or social community.
- **Top 10 in IEEEXtreme 15.0 - Ranked 9**: IEEEXtreme is a global challenge in which teams of student members compete in a 24-hour time span against each other to solve a set of programming problems.
- **Top 100 in IEEEXtreme 14.0 - Ranked 45**: IEEEXtreme is a global challenge in which teams of student members compete in a 24-hour time span against each other to solve a set of programming problems.
- **Top 15 in Shopee Code League 2021**: Shopee Code League 2021 is a 3-week coding challenge consisting of 3 coding competitions (data analytics, data science, and algorithms) open to all students and professionals across the region.
- **2nd Winner in Code Run 2021**: Code Run is the biggest open programming competition in Indonesia. Open to all Indonesian code activists without age, profession and education restrictions.
- **2nd Runner Up in COMPFEST XIII SCPC**: Competitive Programming Contest (CPC) is a national-scale programming competition held by COMPFEST 13

Projects

- **Personal Website (mhasan01.com)**: My personal website is where I my put my information including activities, resume, and projects. Created with NextJs, Typescript, React, Framer Motion, and Tailwind CSS
- **Compete HMIF Tech Website**: Compete HMIF Tech is a website to give Competition and Community info to the world, this website includes starting guide to compete in various competitions. Created with GatsbyJs, NextJs, Tailwind CSS, LaTeX, and Markdowns
- **Money Monitoring Application**: Created application for monitoring money and giving data charts, created with ReactJS, Bootstrap, NodeJs, Express, and MongoDB
- **Fitness Android Application**: Fitness Android Application is an android application that can support exercise activities that contain several features such as Sport News, Training Tracker, Training History, and Training Scheduler.
- **Halma AI**: Halma is a strategy board game. The core of the project is implementing AI in the bot (computer player), using Minimax Algorithm, Local Search Algorithms (Hill Climbing or Simulated Annealing), and both, and finding out how good each algorithm performs.
- **Academic Information System Application**: This Academic Information System application was developed to meet the needs of academic administration activities. Created using PyQt and MySQL
- **Avatar Duel Game Card**: Avatar Duel Game Card is a card game application created with JavaFX. This game can be played by two people, each person has a card containing 3 types, namely land, character, and skill cards.

Volunteer Experiences

- **Head of Competition and Community at HMIF Tech**: Manage competition informations and communities including Competitive Programming, Capture The Flag, Data Science, UI/UX, and Game Development
- **Head of Competitive Programming**: Teach competitive programming to college students, manage competitive programming informations, and lead the competitive programming community
- **Programming Laboratory Assistant**: Assisted various programming courses to Institut Teknologi Bandung Students.
- **Problem Setter for Programming Assessment in Algobash**: Make programming problems for programming assessment using C++ and tcframe

Programming Skills

- **Languages**: C++, Java, Javascript, Python, Golang, SQL   **Technologies**: React, Express, Java Springboot