PATRICK BEAL B. CALAGAHAN

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SUMMARY

- Full-Stack Web Developer using JavaScript, Tailwind CSS, Bootstrap, Material UI, Node, Express, MongoDB, React, POSTMAN, RESTful APIs, and TypeScript.
- 1 year of **experience** in developing front-end websites with JavaScript.
- 3 years of **experience** in software development with Java, Android Studio, Python, and C++, and also applying it to develop hardware embedded systems with Arduino, Platform I/O, Raspberry Pi, and ESP32

RELEVANT COURSEWORK

System Design and Analysis	**Software Design and Engineering**	**Data Structures and Algorithms**
Computer Networks & Security	**Engineering Management**	**Data & Digital Communication**

SKILLS

Languages: C, C++, Java, JavaScript, TypeScript, Python,

Technologies/Frameworks: React, Tailwind CSS, Material UI, Bootstrap, Git, Github, Figma, Firebase.

EXPERIENCE

TESDA | IT Specialist (Intern) Macasandig, CDO | **03-2024-05-2024**

- Worked with an IT student, and 2 other Computer Engineers in managing and improving data management and presentation designs.
- Created stunning presentations with graphics design and AI voice generation, and designed a login and signup form webpage, which streamlined the workflow of my TESDA Coordinator.
- Recognized in the entire TESDA X region for successfully presenting stunning video presentation with clear and precise details.

EDUCATION

University of Science and Technology of Southern Philippines (USTP) **Lapasan, CDO 2020-2024**

- BS in **Computer Engineering**
- Cumulative GPA: **1.99/5.00** (1.00 = Excellent)

PROJECTS

Amazon-Clone | Repository

Developed an e-commerce website that resembles that of Amazon's website. By applying DOM manipulation, data fetching, and HTML generation, the website is fully functional from buying a product, adding to cart,

édafos(Soil) **| Repository**

Designed and developed a mobile application with Android Studio that the captured soil is arable or non-arable. Using TensorFlow the project achieved 81% accuracy for training dataset and 87.2% for training dataset along with 82% usability score

Cyber-Physical-System | View

Water quality monitoring system that combines software and hardware by using Arduino with C++ and ESP32 hardware, achieving 100%, 89%, and 100% functionality for its sensing, actuation, and computation.