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Ernest Tan Cheng Wei

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EDUCATION

Columbia University in the City of New York   New York, NY
Candidate for Bachelor of Arts in Computer Science   Expected Dec 2022

- **Relevant Coursework:** Advanced Programming (C, C++, and Git), Data Structures, (Java), Introduction to Databases (MySQL), Programming Languages and Translators (Ocaml and Python), User Interface Design (Javascript and Python)

WORK EXPERIENCE

Columbia Build Lab   New York, NY
Software Engineer Intern   May 2022 - Present

- Collaborating with a team of 3 engineers and designers to develop a professional networking application for women
- Designed and developed landing page using Figma, React, and Tailwind to gain initial users and fundraising
- Utilizing Agile practices to help launch and test new features frequently to users
- Developing an automated test suite using Jest to drive test driven development

Launcho Ventures   Singapore, SG
Venture Studio Intern   Jul 2020 - Nov 2020

- Conducted financial analyses, market research, and product research to identify 5 new ventures to invest in
- Pioneered the launch of Kenn & Kitt, an in-house pet supplement startup, by formulating the brand's visual identity, identifying manufacturers and presenting a pitch deck
- Performed consumer research in South East Asia and constructed data models to identify new markets to enter

Boba Brew   Singapore, SG
Founder   Jan 2015 - Aug 2017

- Conceptualized, researched and created prototype drinks to meet consumer needs and maximize profits
- Directed all organizational operations, policies and objectives to maximize productivity and returns
- Sold over 10,000 units and increased revenue by 25 percent in second year of operation

TECHNICAL EXPERIENCE AND PROJECTS

Umami (**https://umami-ae4ad.web.app/**)
Social Network Application

- Developed a social network application using React, Tailwind and Firebase so users can create, share and discover recipes
- Implemented social features such as commenting, liking and following to give users a rich experience
- Built reusable components and standalone functions to allow for ease of future use

Portfolio Site (**https://ernesttan.com/**)
Full Stack Application

- Designed and developed the frontend using React and Tailwind
- Created a RESTful backend server using Node and Express allowing data to be persistently stored in an online database
- Developed a content management system application to manage blog posts and projects published onto the website

Friday (**https://friday-app-b20d8.web.app/**)
Task Planning Application

- Conceptualized and developed a task planning application that allows users to plan weekly and daily tasks
- Created a responsive layout to provide users the same experience on mobile and desktop devices
- Used Figma to create a style guide and user interface to ensure a pleasant user experience

SKILLS AND TECHNOLOGIES

Languages: Javascript, Python, HTML, CSS, SQL
Frameworks and Libraries: React.js, Node.js, Express.js, Mongoose.js, Flask, TailwindCSS, Bootstrap, Jest
Tools: MongoDB, AWS S3, Firebase, Git, Webpack, Figma