

## **Internship proposal**

Jason Hampshire

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This summer, I have been invited to work as an intern as a part of Infosys's InStep program. This internship will be through their Indianapolis office, located in the One America tower, located roughly a mile away from the IUPUI campus. The program is set to span 8 weeks, starting on May 5<sup>th</sup>, 2021 and end July 1<sup>st</sup>, 2021. As a part of this internship, I have tentatively been tasked with working on a Health Monitoring application. At the end of the internship, I will be expected to submit said application to be reviewed as completion of the program.

Infosys was founded in 1981 by a group of engineers in Pune, Maharashtra, India. After 40 years of growth and development, the company is now a superpower, spanning over 40 countries with over 200,000 employees. As a business, they provide a variety of consulting and software development services with a 2020 net income of \$2.3 billion. Their Instep summer internship program has been established for many years back and has over 2,400 alumni. In previous years, 'InSteppers' would have the opportunity to travel to the Infosys headquarters in Bangalore, Karnataka, India; however, the current state of the world has required a rework of the system, allowing initially for a fully remote experience with the possibility of in-office interactions based on the ever-changing restrictions and environment.

As a part of the InStep program, I have been assigned to a project described as a Health Monitoring application. The description continues on to say that the application is to "[c]heck individual vitals {temperature, heart beats etc} and keep a record of user's health report." For this specific project, prior IOT and electronics knowledge is required and while I have not had any academic training on such subjects, I have experience at my current job regarding such things. I will be working on programming microcontrollers, the two mentioned being Arduino and Raspberry Pi. Working with IOT devices and other microcontrollers and interfacing them with an application will require both lower-level, controller programming and interacting with various sensors as well as more surface-level application and GUI programming. I say that I have been tentatively assigned to this project because there is a possibility that I could be switched to one of the 6 other projects that are a part of this program. My other possible choices were

‘Hybrid application {web application and mobility app}’ and ‘Face recognition and voice search features’.

While working on this project, I will be required to complete specific tasks and assignments by a set deadline. This will help both track my progress through the project and will allow for my superiors to order how the development progress advances. At the end of the internship, I will be expected to submit my finished project to be evaluated. If I have done a satisfactory job, I will receive certification of completion of the internship.

I am excited for May 10<sup>th</sup> to come around so that I can start the InStep program. While already having some experience with programming in industry, this will be a big step up. Infosys has a lot of resources and tools to help me learn that I would otherwise not have access to. I believe that this internship will help me learn and grow significantly and will better prepare me for after I have completed my degree.