Abhiti Vaish

Boston, MA 02115

Education

Massachusetts Institute of Technology | 4.5 / 5.0   **Cambridge, MA**
B.S. in Computer Science and Engineering & Minor in Economics   May 2020
Product Engineering Processes, Software Construction, Computer System Security, Computer System
Engineering, Design and Analysis of Algorithms, Artificial Intelligence, Principles and Practice of Assistive
Technology, Interconnected Embedded Systems
Innovation Policy and Economics, Engineering Innovation, Economics and E-Commerce

Experience

System Integrator | 2.009: Product Engineering Processes   **Cambridge, MA**
Managed iterative product design in MIT's capstone class by coordinating a team of 16   September – December 2019
mechanical and software engineers building a fixed-volume buoyancy control device

Software Engineering Intern | Microsoft   **Cambridge, MA**
Designed ed-tech web app to teach Smartfonts, Microsoft Research's tool which facilitates reading   June – August 2019
digital content using static and dynamic colorful "21st Century fonts" which are highly distinguishable
in comparison to familiar fonts; championed REST API and DevOps of product

Mobile Engineering Intern | Brightest   **Brooklyn, NY**
Implemented Android app that aggregates volunteer opportunities to engage socially active citizens;   January 2019
500+ downloads on the Play Store; advocated for Android app as a companion for existing iOS app

Software Engineering Intern | Comcast   **Philadelphia, PA**
Wrote a proprietary REST API that resolves an IP address to its subnet, service, and security zone;   June – August 2018
validated router configurations using Batfish to preemptively identify errors

Software Engineering Intern | Teralytic   **New York, NY**
Created Alexa skill reporting soil metrics and anomalies; invented Slack notification back-off   January – April 2018
algorithm, detecting inactive gateways that monitor farms; constructed ARKit experience displaying
sensor data

Undergraduate Researcher | MIT SENSEable City Lab   **Cambridge, MA**
Developed MATLAB scripts analyzing smartphone accelerometer data to monitor bridges using   July – December 2017
Structural Health Monitoring; structured protocol for crowd-sourced data storage

Projects

Android Developer | So Much Simplicity (SMS)   **Cambridge, MA**
Built high-contrast Android SMS app to aid low-vision client with mobile communication;   September – December 2018
crafted sleek, sparse yet functional conversational message container

Full-Stack Developer | The Other Half   **Philadelphia, PA**
Independently produced productivity-enhancing Android app for partners to coordinate their lives   May – July 2018
together using an informal, customizable, and collaborative "bucket-list" and social calendar

Android Developer | Brainy Backpack   **Cambridge, MA**
Engineered app that alerts smart backpack user if they forget to pack a necessity that is associated   April – May 2018
with an upcoming Google Calendar event, using Firebase push notifications

Skills

Java, Python, C++, Shell, MATLAB, LaTeX, SQL, Git, Android Studio, Alexa Skill Kit,
Firebase, Agile, Docker, IoT (LoRaWAN), REST APIs (Spring Boot, Swagger, Flask, FastAPI),
Cloud Services (AWS, Azure), Languages (Hindi, French)

Contact

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