call/text

407-766-0001

email

rahat@virginia.edu

What I do

I'm Rahat and I love engineering. I have 4+ years of programming and hardware engineering experience. My specific interests include machine learning, web design, cloud computing, app development, UI/UX design, product design, 3D printing, and embedded systems. These passions have led me to pursue a career in which I can continue to service people via creative work that intersects technology and design.

Where I've worked

Educational Software Research at UVA (Sep 2018 - Present)

- Full stack development for tool to allow instructors to monitor engagement of students within the classroom (captured via in-class cameras and microphones).
- Designed UI/UX mockups in Adobe XD and Figma and translated to front-end using HTML, CSS, and JavaScript.

Drone Research at UVA (Jan 2017 - Present)

- Developed Python application to obtain and analyze satellite imagery. Currently being used to track seasonal variation in the vegetation of a UVA-owned forest.
- Programmed UAV flight paths and computer vision algorithms for full autonomy and tree canopy study using DJI Drone SDKs.

Check it out: ecors.evsc.virginia.edu/research

UVA Hyperloop and Maglev Team (Aug 2016 - Jan 2017)

· Wrote efficient data-logging and sensor-interfacing software, presented work and preliminary findings to SpaceX

Check it out: bit.ly/uvahyperloop

What I know

Where I study

Languages

Python, C++, Java, SQL

HTML, CSS, JavaScript

Tools

Git

Xcode, Visual Studio

Electron, React, Node.js

AutoCAD, Adobe CC Suite, Microsoft Office



School of Engineering and Applied Science

BS in Computer Science

Minor in Environmental Science

May 2020 Graduation

What I'm working on

A calculator with WolframAlpha integration. A hat that intelligently takes the best photos for you. A gesture-based home control assistant. A self-charging, self-flying drone that maps forests. And a self-destructing payphone that lets you order pizza.