



## A.J. Uppal

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## Experience

**RESEARCH ASSISTANT, UNIVERSITY OF MASSACHUSETTS AMHERST, AMHERST, MA – OCTOBER 2019 - PRESENT**

Simulating fluid dynamics for the cooling of CO2 for use in particle physics detectors, with python (numpy, scipy, pandas, matplotlib), and Matlab (data analysis/visualization).

**SOFTWARE ENGINEERING INTERN, GOT IT, INC., BURLINGAME, CA – SUMMER 2019**

Spearheaded the engineering for the ExcelChat chrome extension, built javascript modules ([AutoTyper](#), [testimonial carousel](#)), built "bot" to maintain problem volume, helped serve QueryChat AI demo, schema scraping from GitHub/SQLFiddle.

**SOFTWARE ENGINEERING INTERN, YOUWEB INC, BURLINGAME, CA – SUMMER 2018**

Led the marketing campaign for a YouWeb Inc (Discord, Got-it) project, and built the campaign website and web application (javascript, node.js, photoshop, illustrator)

**AIR QUALITY SCIENTIST & DATA ANALYSIS INTERN, BAAQMD, SAN FRANCISCO, CA – SUMMER 2017**

Built, tested, and calibrated low cost air pollution monitors (C) at the Bay Area Air Quality Management District. Built the cloud networking interface to view the data globally (python, javascript, node.js).

**SOFTWARE DEVELOPMENT INTERN, VELOCLOUD NETWORKS (ACQUIRED BY VMWARE), MOUNTAIN VIEW, CA – SUMMER 2015, 2016**

Carried out performance analysis of the network appliance using Ixia, built a web front end to animate the deployment of geographically distributed sites. (javascript)

## Education

University of Massachusetts, Amherst – Dual Major: Computer Science B.S., Astrophysics B.S. – 2022

## Skills

Languages: python, javascript, java, C, SQL, HTML/CSS

Frameworks: React.js, node.js, [socket.io](#), jquery, pytorch, Flask, Redux.js, Three.js, OpenCV

## References

Phil Martien (BAAQMD), David Holstius (BAAQMD), Ajit Mayya (VeloCloud Networks, Inc.)  
Peter Relan (YouWeb, Inc.). Contact information available upon request.