

Anant Kaushik

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EDUCATION

Carnegie Mellon University – School of Computer Science

Master of Software Engineering - Scalable Systems | CGPA 3.8 / 4.33

Pittsburgh, PA

Dec 2020

Current Courses – Software Engineering Practicum, Programming Quantum Computers, Business and Marketing Strategies

Past Courses - Architectures for Software Systems, DevOps: Modern Deployment, Engineering Data Intensive Scalable Systems,

Models of Software Engineering, Entrepreneurship and Innovation Technology

Guru Gobind Singh Indraprastha University

Bachelor of Technology - Computer Science and Engineering

Delhi, India

June 2017

SKILLS

Languages, Frameworks, and Databases – JavaScript, Python, C++, C#, Go Lang, Java, React.JS, Serverless, MySQL, NoSQL

DevOps Tools – Git, Docker, Kubernetes, Vagrant, Nagios, Logstash, Jenkins, AWS Spoken Language: English, Hindi

PROFESSIONAL EXPERIENCE

Digital Dream Labs

Software Team Lead

Pittsburgh, PA

Oct 2021 – Present

- o Spearheading development of Vector Robot Software. This comprises updating and maintaining legacy code for Xamarin application, Robot firmware, and SDK, to restart the production line. *Go Lang, C#, C++, Python*

Senior Software Developer

Feb 2021 – Sep 2021

- o Developed a Mood based random sentence generator for Butter Robot. *Go Lang, Unity*
- o Created an automated Jenkins continuous delivery pipeline. *Jenkins, Groovy*

Software Developer Intern

May – Aug 2020

- o Developed an open-source tool to allow users of Vector to configure robot with different firmware. *Node, Html, CSS*
- o Constructed a npm package to enable users to save, sign, and share other firmware OTAs for Vector ([vector-web-setup](#)).

Carnegie Mellon University

Graduate Research Assistant – Amazon Alexa Prize Social Bot Challenge - Tartan Bot Team- **Semi-Finalists**

Pittsburgh, PA

Apr 2020 – Dec 2020

- o Created automatic data labeling tasks to facilitate deep learning clustering using Snorkel and Convokit. *Python*
- o Authored a paper on Two-Tiered Dialog Framework ([link](#)). *Python, Docker, Lambda, Cloud Formation*

Graduate Teaching Assistant

Jan 2020 – Dec 2020

- o Assisted [Babs Carryer](#) in AI Innovation (11654) in Fall 2020 and Entrepreneurship in Technology (14815) in Spring 2020.

Zerone Microsystems Private Limited

Lead Developer

Gurugram, India

Nov. 2018 – May 2019

- o Developed BLE based Swipe protocol allowing exchange of data packets across iOS and Android by swipe of two smartphones (alternative to NFC); 30% faster than previous version. *Java, Swift, Bit Manipulations, Node, MongoDB*
- o Lead development on first version of [Fintech project CardSe](#), converts smartphones into payment terminal or tap to pay cards. *Java, Swift, Serverless, Node, MongoDB*

Senior Developer

July 2018 – Oct 2018

- o Scaled Visitor / Guest Management Systems for 50% shorter query time over 10,000 entries.
- o Added analytics dashboard to judge trends and frequency of guests. *React, Socket.IO, Node, MongoDB*

Software Developer

June 2017 – June 2018

- o Developed Visitor / Guest Management systems enabling guests to check in by swiping phone. The system comprises real-time web dashboard and front-desk check-in Android app for partnered companies and a free Android and iOS application for customers. *Java, Swift, React, Socket.IO, Node, MongoDB*

ACADEMIC PROJECTS *

Tartan Smart Home Project

Spring 2020

- o Improved architecture of Java based IoT Smart home controller to enhance scalability.
- o Developed an automated machine learning pipeline with daily training capabilities data feedback to control light switches.

Ubiquitously controlled personalized smart-lock

Summer 2015

- o Developed a smart automated door lock using off-the-shelf hardware, Raspberry Pi and Android app to control to lock.
- o Published in IEEE IoT (I-SMAC) Conference in Coimbatore in Feb 2017 ([link](#)). *Android, Python, C*

LEADERSHIP AND HONORS

SCS Dean's Master's Student Committee Member

Spring 2020 – Fall 2020

A. Nico Habermann Educational Service Award

Spring 2020

* Other projects showcased at <http://www.anantkaushik.com/projects>