Ahan Mukhopadhyay

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Education

University of California, San Diego **La Jolla, CA**
BS in Computer Science GPA: 3.8 *Expected Graduation: June 2020*

Experience

UCSD CSE Department **La Jolla, CA**
Tutor *Sept 2017 - Mar 2018*
- CSE 11 - Intro to Java and Object Oriented Programming - Professor Rick Ord
- CSE 30 - Computer Organization and Systems Programming - Professor Rick Ord
- Graded programming assignments, quizzes and exams. Hosted lab hours to resolve student questions and bugs
- Led discussion sections and made useful slides. Proctored quizzes and exams in class

Viasat **Carlsbad, CA**
Software Engineering Intern *June 2018 – Sep 2018*
- Designed a Zero Touch Provisioning system for automating the deployment of next-gen network
- Implemented an asynchronous Orchestrator for long workflow tasks
- Created a VPN concentrator that uses the daemon charon to detect ipsec tunnels
- Used kubernetes to deploy multiple docker-image pods to the cloud
- Won intern hackathon category Delivering The Unexpected
- Tech Used: Python, Flask, Celery, Docker, Kubernetes, PostgresSQL

Swish Labs **Remote**
Software Development Intern *June 2017 – Aug 2017*
- Worked on backend-server dev, routing, database querying for projects
- Improved concurrency in the room8 (iOS app) server for 10,000 active users
- Created Rest APIs to expand backend server support to mobile apps
- Tech Used: NodeJs, ReactJs, MeteorJS, KeystoneJS, MongoDB

Yobi Technologies **Gurgaon, India**
Software Development Intern *Jan 2016 – June 2016*
- Developed an extreme weather alert tool for use by the Government
- Created a web app that collected data from 100+ IoT weather stations
- Implemented data visualization models that identify at-risk regions
- Tech Used: Python, Flask, MongoDB, Plotly

Projects

Chessbox *Jan 2018 – May 2018*
- An Chess AI you can play on a physical chess-board
- Custom Chess Engine obtained a 2100 elo rating
- Employs Alpha-Beta Pruning and Iterative deepening for search
- Chessboard uses IR sensors to detect piece movement
- Tech Used: C/C++, Arduino

ClickBlock - Social Hack Winner *HackUCI 2017*
- Google Chrome Plugin for Facebook newsfeed that automatically checks for clickbait
- Changes title to a more appropriate one for the article's content
- Provides a 10-line summary on hover and probability of correctness
- Classifier trained on 10,000 articles with 89% accuracy.
- Tech Used: Python, sci-kit learn, flask, beautiful-soup

Trivents - DocuSign Prize Winner *SD-Hacks 2016*
- A platform that allows event posting to all social media pages
- Each event has a QR code which can be used to signup for the event
- Messenger Bot uses the QR code to register you for the event
- QR ticket scanning helps prevent longs queues
- Tech Used: NodeJS, MeteorJS, Messenger Bot, FB Graph API, GoogleMaps API

Additional Skills

- **Coursework:** Data Structures, Algorithms, Computer Systems, Software Engineering, Linear Algebra
- **Languages/Frameworks:** Python, C, C++, Java, HTML/CSS, Javascript, NodeJS, MeteorJS, React