

# Chintan Panchamia

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## EDUCATION

**North Carolina State University** – GPA: 3.48

(Aug 2015 – May 2017)

**Master of Computer Science**, coursework: Software Engineering and Design, Human Computer Interaction, Algorithms, Algorithms for Data Guided Business Intelligence and Machine Learning, Game Building AI, Database Management Systems

**University of Mumbai**

(Aug 2011 – May 2015)

**Bachelor of Computer Engineering**

## SKILLS

**Core:** Python, GoLang

**Web:** JavaScript, HTML5/CSS3, Bootstrap, Django, Flask, jQuery, REST

**Tools:** AWS, Docker, Processing

## EXPERIENCE

**Amazon Web Services – Software Development Engineer 2**

(Dec 2020 – present)

- Led an instance of an EC2-wide campaign to protect service hosts from power-based service outages
- Designed the next iteration of Sundance to manage and upgrade a different class of hosts with a larger set of challenges
- Currently working in the Elastic Container Registry organization to support and improve infrastructure for supporting customers's usage of images

**Amazon Web Services – Software Development Engineer 1**

(Jan 2018 – Nov 2020)

- Designed and launched a scalable, self-servicing EC2 VPC DataPlane software deployment system called Sundance
- Reduced developer hours with thoughtful automation, by up to 80% (multiple projects)
- Doubled deployment speeds by designing a comprehensive and safe configuration management system

**Microsoft – Program Manager in Tech**

(Sept 2017 – Jan 2018)

- Helped on-board the new Fonts package system to the Windows 10 Store for Microsoft
- Assisted in cleaning up older projects from the pipeline and streamlining the testing and debugging workflows (Python, Fonttools)

## PROJECTS

•2017•

**Kiosk for DrChrono users** (Django, HTML5/CSS3, Bootstrap, DrChrono API)

- Added a new functionality for Doctors using the said service to manage their appointments and have the patient check-in to show up for their slot and update any information while they are in

**Movement-based and Decision-making AI** (Java, Processing)

- Generated various AI behaviors to develop an aesthetic visualization of NPC movement and decision making
- Achieved improved understanding of game physics with a prize for developing a thematic clock AI imitating a Wolfpack

•2016•

**DockerBot** (Node.js, Java, HTML, Selenium)

- Delivered a Slack Bot for creating Docker files and images of any desired environment; Achieved improved developer satisfaction

**Sharks, Citizen Science Website for Middle School** (Flask, Bootstrap, jQuery, HTML5/CSS3)

- Enhanced the UX/UI for the Citizen Science web-app for Middle School students, now handling 100+ users
- Introduced features for interactively finding shark teeth in a sea of dry debris and measuring them with authentic apparatus
- Achieved unified learning by adding a statistical distribution, followed by extensive user testing

•2015•

**Ink – A Social Network for Authors and Writers** (Bootstrap, jQuery, HTML5/CSS3)

- Applied the UI/UX design principles put forth by Norman and Nielsen, along with analysis techniques such as the Keystroke Level Model, and the GOMS analysis technique, to come up with an effective User Interface, devoid of most design flaws

**Box-office success prediction** (Python, Twitter-Streaming API, PHP, HTML5/CSS3)

- Designed a web application that uses the Twitter Streaming API to monitor certain types of tweets to be processed later by a two-stage sentiment analyzer using Naïve-Bayes, and ID3 for prediction
- Achieved 85% accuracy on a set of upcoming Bollywood movies at the time, along with positive reviews for the quality of the dashboard

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## PUBLICATION

**Feed Optimization System based on Quality Filtering** – *International Journal of Computer Applications 106.1 (2014)*

- Devised an algorithm for quality oriented curation of data on social networking websites
- Identified and estimated parameters and utilized linear regression to predict content relevance to user (Java, MySQL, Hadoop)