

KUNAL BHUWALKA

Software Engineer

EDUCATION

Carnegie Mellon University 2019

**Master of
Human-Computer Interaction**

SRM University 2017

**Bachelor of Technology in
Computer Science and Engineering**

AWARDS

**James R. Swartz
Entrepreneurial Fellowship** 2018 - 2019

A highly selective program that develops each Fellow's entrepreneurial potential and leadership skills through hands-on experiences, networking, mentoring and courses in entrepreneurship.

SKILLS

Development

Java
Python
Scikit Learn
Android
iOS
Front-end Web
NodeJS

Design

UX Research
User Testing
Rapid Prototyping
Interaction Design

WORK EXPERIENCE

Apple

Siri Domains Engineer NOV 2019 - PRESENT

Crafting and implementing natural language interactions and workflow that provide intelligent user assistance.

Integrating data feeds and live service providers using web services.

Working with the platform team to define infrastructure interfaces.

Working with design and client-side teams to ensure a phenomenal user experience.

Working with localization teams to support the Siri experience in multiple languages.

Synergy Labs, Carnegie Mellon University

Android Research Associate APR 2017 - JUL 2018

Reduced app launch time by 60% using Loopers & Handlers, and Thread Pools.

Optimized application assets and created ProGuard rules to reduce the application size by 50% on production builds.

Designed and developed an automated testing platform based on monkeyrunner to run tests on multiple devices simultaneously.

Developed a Docker based system to download free apps automatically from the Play Store and maintain a database of the app details for analysis.

Developed a Developer Sandbox mode for the application which eliminated the need for new builds to configure the application behavior.

Redesigned and implemented a new onboarding flow for users.

PROJECTS

Nemacolin Woodlands Resort JAN - AUG 2019

Analyzed reservations and call center datasets to identify opportunities and recommend methods to increase guest conversions through targeted marketing.

Designed a mobile-first web app that provides guests recommendations for room, activity and dining options through a Machine Learning based logic.

Developed a back-end system that presents users with curated content, improving the likelihood of conversions from 50% to 92%.

Prototyped the concept for the clients using React, JSX, and TypeScript to curate content and to provide the complete trip planning experience.

Created a product roadmap for the trip planner by analyzing current infrastructure and strategized the implementation of a production ready system.

Sentiment Polarity Analyzer FEB 2019

Implemented a Natural Language Processing (NLP) system pipeline to analyze the sentiment of movie reviews using Binary Logistic Regression.

Used Stochastic Gradient Descent to optimize parameters of logistic regression.

Performed feature extraction on the reviews to develop a model with 82% accuracy in predicting whether a given review was positive or negative.

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