Muhammad Yasoob Ullah Khalid

GitHub | Book | Blog | Personal Website
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EDUCATION

Colgate University, Hamilton, NY
B.A Computer Science, Class of 2021
Coursework: Comp Organization & Architecture (Fall 2017), Discrete Structures (Spring 2018)

SKILLS

Programming: Python, JavaScript, HTML, CSS (Proficient); Java, Ruby, C# (Working Knowledge)
Technologies: Git, Heroku, DigitalOcean, Travis, Machine Learning (scikit-learn & Keras), Android SDK,Unity3d
Languages: Urdu, Punjabi, Hindi (native); Saraiki, English (fluent); German, Arabic (Basic)

EXPERIENCE

Research Assistant
HCI Lab, Colgate University, Sept 2017-Present
‣   Developing concussion management app allowing users to record concussion data & track progress over time
‣   Used Python (Flask) to develop the online API and Ionic Framework to develop the cross-platform mobile app

Book Author
Intermediate Python Book, 2015-2017
‣   Self-published English version read by 619,000+ people in 186+ countries which has been translated into Chinese, Russian, Portuguese, Korean - Turkish translation is in progress
‣   Used at McGill, UC Berkeley (among others) as supplementary material

Freelance Full Stack Software Developer
Fibre Craft Industries, 2015-2016
‣   Designed company website using Django, deployed it on Digital Ocean and Applied User Centered Design methodology while developing the CMS catered to non-technical users
‣   Used A/B testing and the performance of specific keywords to guide the initial Facebook and Google advertising strategy to maximize traffic

PROJECTS

Automated Alzheimer's Detection (2016)
‣   Independent research project to predict the onset of Alzheimer's by training machine learning algorithms on the online OasisBrain dataset; achieved an accuracy of 88% by developing an ensemble of SVM and Artificial Neural Networks by using keras and scikit-learn

Python Tips Blog & Newsletter (2013-Present)
‣   Followed by people from MIT, UPenn, Intel, Cisco & UK Customs (among others) & referenced in classes at CMU, Berkeley, UC Santa Barbara, UArk; read by more than 2 Million people in 185+ countries

Facebook-Reddit Messenger Bot (2017)
‣   Created a messenger bot which shares memes, jokes and motivational posts from Reddit on Messenger using Python and the Facebook bot API to develop the backend, by hosting the online API on Heroku & used Postgresql to save the posts from Reddit in a database

Tube Downloader (2016-2017)
‣   Developed an Android app using Java which was used by 400,000+ people for downloading music and videos from websites which handled up to 100 requests per second using the Python based web API on Heroku

ACHIEVEMENTS

<Colgate Coders> (2017-Present)
‣   Created a programming club at Colgate which hosted multiple events including workshops and webcast screenings and sent teams to different hackathons and planning to organize an annual hackathon

Google Code-in Finalist (2016)
‣   Completed 55+ tasks using Python, Go, Java, C in a month, named the first ever finalist from Pakistan

Winner Softec (2016)
‣   Won the biggest collegiate programming competition in Pakistan as the only High School team at the competition
‣   Won $500 dollars by developing an eCommerce website using Django & Oscar

MHacks Hackathon (2015)
‣   Developed an Augmented reality app for Meta Goggles with a team from University of Waterloo using C# in Unity3d and the web API using Flask (Python), ranked among top 10 teams from among 1500 participants