Mohammed Sefath Chowdhury

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WORK EXPERIENCE

PerkinElmer Inc, Associate Software Engineer   *NY May '19 - Present*
+ Developed performance dashboard monitoring API calls, job times, AWS
  hardware utilization using docker, k8s, AWS lambda & cloudwatch, and grafana
+ Added automated end to end tests using Selenium for our jenkins build
+ Agile scrum team experience with modern best practices, focusing on quality

M&T Bank, Enterprise Architecture and Governance   *NY Jun '18 - May '19*
+ Developed proof of concept for Artifical Intelligence using Google's
  inception models, AIY kits, etc. Developed in python/rasbian linux
+ Developed POC for internal engagement/resource blog for interns using django
+ Developed POC for AI chatbot, decreasing call load to HR for FAQs - web app
+ Studied software architecture patterns, then applied in my own projects

Undergraduate Teaching Assistant   *NY August '18 - Present*
+ Teaching Assistant for Intro to Computer Science I & II

Skanska USA, Virtual Design and Construction   *NY Jun '16 to Aug '17*
+ Organized Mechanical, Electrical & Plumbing fixtures in 3D CAD (MEP Coordination)
+ Coded a Python program that automates creation of conformed CAD sets
+ Coordinated with foremen to schedule the best plan for construction
+ Invited back to work here for a winter and summer

School Construction Authority, Electrical Engineering Intern   *NY Summer '15*
+ Developed Computer Aided Design skills, earned OSHA licenses by taking
  company classes, learned important file management skills in the office

CodeNow, Alumni Internship Program   *NY Summer '17*
+ Completed 4 week Ruby course at Bloomberg, developed games with engineers

SELECT PERSONAL PROJECTS   [All on GitHub!]

OpenSpot // Swift iOS & Kotlin Android - firebase   *Personal Group Project*
+ Mobile app developed with friends as an "airbnb" for driveways, passive income
  for homeowners and solution for city commuters

Student Asisstant // google home mini , python web scrape   *Hackathon*
+ A google assistant hack to check for available classes, webhook
  alerts for school bus arrival, grocery price check, bank balance check

FlyScan // swift, google APIs   *Hackathon*
+ iOS app using Tesseract's OCR to locate important information on a flyer for
  time and place of an event, then Google Calendar's API posts event to your
  calendar. Useful for Students keeping track of events around campus

Music Reactive LED strip // arduino, ws2812b   *Hardware Project*
+ Programmed a music reactive LED strip, youtube video available

CADautomator // python   *Office Project*
+ A python program that automates the process of updating conformed CAD sets

RandGenAAS100 // heroku, node + express   *Client Project*
+ A web application made for my professor who would take verbal quizzes in
  class and needed to call on students randomly. Read the full story on GitHub!

SELECT RESEARCH PROJECTS

Augmented Reality Research, University at Buffalo   *Sep '17 Fall Semester*
+ Program to map Mechanical, Electrical & Plumbing CAD models onto on the field
+ Tech stack includes Unity engine with the Vuforia SDK

3D Printed Pre-Prosthetic Limbs Research, University at Buffalo   *Summer '18*
+ Developed prototype model for children, presented to Enable

EDUCATION

University at Buffalo   **May '20**
B.S. in Computer Science   *GPA 3.33*

Notable Coursework:
+ Data Structures   + Digital Systems
+ Computer Organizations   + Discrete Structures
+ Real Time Embedded Systems   + Algorithm Analysis

SKILLS

Languages   Java, JavaScript, HTML, CSS, Python, C++

Full Stack   Express, jQuery, Node.js

AutoCad   Autodesk Revit, NavisWorks, BIM 360 Glue

Photo/Video   Adobe Lightroom, FinalCutProX, After Effects

Design   Adobe Illustrator, Adobe Photoshop

Linguistics   Fluent English & Bangla, Conversational Spanish

Clerical Proficiency   Excel, Powerpoint, Word, Slack

EXTRACURRICULARS

UB Association for Computing Machinery
+ Developing skills in Coding Workshops & Hacknights
+ Working for an executive board position

UB Students for Exploration & Development of Space
+ Building Lvl-1 high power rocket
+ Avionics team member building flight computer
  with arduinos and select modules. (Embedded Systems)

UB Muslim Student Association
+ Club Secretary: Manage Slack, event timeline, created
  maintain club website, create flyers

UB Car Club
+ Working on personal car projects involving: LED footwell
  lights, sequential LED headlight strips, 3D printing
  rear diffuser & front splitter pieces, redesigning tailights

Hobbies
+ 3D Printing
+ UB Boxing
+ UB Breakdance Club
+ Content creator on Youtube and Instagram

ACHIEVEMENTS

Awards
+ "Dear Mr. President" Documentary won awards in
  Brooklyn Film Festival
+ Top 8 wrestlers in Mayors Cup, NYC
+ 1st place in F.I.R.S.T. Lego League Robotics competition
+ As club president, raised the most charity with
  Muslim Student Association in Midwood High School
+ Valedictorian of Class of 2008

Last updated August 8, '19