

Arsh Noor Amin

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Education

Bucknell University

Lewisburg, PA

BSc. in Computer Engineering, **GPA 3.6 (Graduated Cum Laude)**

May 2021

Honors: Dean's List, Bison Award for Leadership & Excellence, Shelby C. Davis Scholar

Relevant Coursework: Object Oriented Design, Data Structures, Algorithm, Machine Learning, Computer Architecture, Embedded Systems, Computer Organization, Digital Image Processing, Internet of Things, Mobile Computing

MSc. in Electrical Engineering

May 2023

Technical Skills

Languages: Python, Java, C/C++, MATLAB, HTML/CSS, JavaScript, TypeScript

Libraries & Frameworks: Angular, Django, React, Flask, Bootstrap, TensorFlow, WordPress, Pandas, NumPy, Matplotlib

Tools & Platforms: Git, Postman, Heroku, Figma, Adobe XD, Adobe Illustrator, Adobe Indesign

Experience

Northrop Grumman

August 2020 – May 2021

Software Engineer – Capstone Project

Baltimore, MD

- Designed and developed a touch user interface for a RF Emitter device to be used by Northrop Grumman test pilots using Python; allowing pilots to select RF signal, emit selected signal, and monitor system status via indicators
- Liased in weekly discussions with project manager and end user (test pilot) regarding interface design and feature planning
- Collaborated with system engineer to integrate user interface with software-defined radio
- Authored a thorough 36-page user-manual for test pilot reference detailing information regarding interface interactions and indicators
- Exceeded client expectation for average time on task by 80%

Penn State University

June – August 2020

Full-Stack Developer

State College, PA

- Developed a classifieds web app for 300+ farmers in Center County, PA, for resource sharing and community building
- Designed the frontend using Adobe XD by iteratively producing wireframes, revised in accordance with communication from stakeholders
- Independently determined the stack – implemented the backend in Django using Python by architecting REST API and frontend using Angular in TypeScript along with custom HTML/CSS and Google's Material Design components

Diginera LLC

January – May 2020

Frontend Engineering Intern

Lewisburg, PA

- Built frontend of a parking web app for Bucknell University using HTML/CSS with Bootstrap and JavaScript
- Created responsive Figma wireframes for all possible user flows along with custom graphics and components
- Conducted A/B testing with over 100+ users to obtain scalable feedback
- Used Jira to organize tasks and report on progress while participating in agile discourse with other engineers and client regarding app design and features

Projects

Amulya JavaScript, React

- Developed a story based drag and drop coding platform using React to teach children in South Asia basics of Computer Science
- Secured \$12,750 in funding through BizPitch, Bucknell's startup competition and the Davis Projects for Peace grant to establish a Computer Science program in a 250-student free middle school in Nepal

BeHerd Python, Flask

- Winner – "Twilio Hackathon 2021"
- Created a campus security application using Flask and Twilio API which allows students to instantly reach their emergency contacts by messaging a preset codeword to anonymous phone number

Leadership

International House Bucknell House Leader

August 2019 – May 2020

Organized 5 cultural events for 200+ students, increased house roster by 80%

Lewisburg Children's Museum Technical Lead

June 2019 – May 2021

Managed a team of 6 technical interns, designed and built 3 interactive science exhibits for children 5-12 years old