

# 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
- Liaised 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