

# Brandon Namphong

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## OBJECTIVE

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Knowledgeable and dedicated software engineer with a strong background in coding, research, and project development seeking an entry-level software opportunity. Quickly master new technologies and processes. Ability to communicate findings effectively.

## EDUCATION

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**Texas A&M University** – College Station, TX

May 2021

Bachelor of Science in Computer Engineering

Minor in Cyber Security

GPA: 3.5 / 4.0

### Relevant Coursework:

Data Structures & Algorithms

Programming Studio

Micro-Computer Systems

Discrete Structures for Computing

Computer Architecture & Design

Computer Human Interaction

Design & Analysis of Algorithms

Computer Systems

Computer & Network Security

## SKILLS

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**General:** Object Oriented Programming, Functional Programming, UI/UX, API, Computer Hardware, Cyber Security

Agile/Waterfall/Scrum Methodology, Teamwork, Interpersonal Communication

**Software:** Microsoft Office, Trello, Slack, Discord, Zoom, Teams, Linux, Git, Bash, Docker, LabVIEW

**Languages:** C++, C, Java, Python, SQL, HTML, CSS, JavaScript, React, Scheme, MATLAB

## PROFESSIONAL EXPERIENCE

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### Block-Chain Research

August 2020 – December 2020

Undergraduate Research Aid

- Explored upcoming blockchain architecture and its applications to decentralized identity and verifiable credentials
- Performed implementation, simulation, and testing of open source blockchain technology
- Communicated findings effectively to research team weekly
- Produced and provided accessible deliverables to aid in understanding of blockchain architecture

### USDA-ARS

June 2015 – July 2018

Biological Research Technician

- Gathered, arranged, and corrected research data to create representative graphs and charts highlighting results for presentations.
- Digitized and organized aerial photography data using Google Earth to streamline research procedures.
- Leveraged highly effective communication and active listening skills to work effectively with engineers of diverse backgrounds and accomplish common research goals.
- Dissertation: Distribution of Selected Soil and Water Conservation Practice in the U.S as Identified with Google Earth.

## PROJECT EXPERIENCE

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### Senior Design Capstone - Smart Mask

- Collaborated with a team of four to design an integrated face mask device
- Utilized C++ to interface a microcontroller with LED matrix, microphone, and switch component
- Designed and interfaced speaker circuit which amplifies the voice of the user
- Conducted user studies to aid in final design and optimization decisions of product

### Future Poll Dashboard

- Utilized HTML/CSS/JavaScript/React to create a niche dashboard catered for a specific audience
- Implemented multiple APIs and determined appropriate server inquiries to receive desirable information
- Troubleshoot user interface and API call issues

### Audio Visualizer

- Utilized Python to develop a dynamic display that reacts to the sound of music
- Interfaced a microcontroller with a LED matrix and sound panel
- Researched frequency concepts to implement sound interpretation functionality

### Java Database Management System (DBS)

- Collaborated with a team of four to develop a DBS to allow for query of public business information
- Utilized Java, Swing GUI, JDBC API, and Postgres SQL to create a functional database and user interface