

Bao Nguyen

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EDUCATION

Bachelor of Science, Computer Science

University of Arizona, Tucson, AZ

Expected Graduation: May 2027

GPA: 4.0

Relevant Coursework: Web Programming, Software Development, Computer Programming, Data Structures & Algorithms

TECHNICAL SKILLS

Programming Language: Python, JavaScript, Java, Dart

Development Tools: Git/Github, JUnit, JavaFX, Webpack, Docker, HTML/CSS

Frameworks/Databases: Django, React, Next.js, Spring Boot, Flutter, PostgreSQL, Firebase

PROFESSIONAL EXPERIENCE

Web Analyst

Mar. 2024 – Present

University of Arizona (in the University IT Department)

Remote

- Created guide for UA faculty members to design websites on Arizona Faculty Sites platform
- Contributed to 10+ arizona.edu web projects through redesigns, cloud migrations, and site updates
- Automated link testing with JavaScript, catching 100+ error links and saving about 20 hours of manual testing

Mobile App Developer Intern

May 2023 – Aug. 2024

Phocos Americans, Inc. (multinational solar electronics company)

Tucson, AZ

- Developed four new user interfaces for a cross-platform mobile app with over 5,000 downloads using Flutter, resulting in a 20% increase in user engagement rate for the company's latest Bluetooth-enabled product
- Built a Dart program to convert 200 ASCII characters/second from device responses into human-readable text
- Visualized historical data using SyncFusion package, supporting daily and monthly view modes in line chart
- Created interfaces to control the product settings via Bluetooth Low Energy, resulting in 1-second connection time

Undergraduate Research Assistant

Feb. 2024 – May 2024

University of Arizona (in a faculty-led project developing AI tools for sustainable farming)

Tucson, AZ

- Processed 100 spatial datasets with ArcGIS Pro to extract soil properties for training crop yield predictive models
- Acquired crop yield data of 13 commodities across six Southwest US states from the a public database with Python

PROJECTS

Garden Simulation — Java, JavaFX, Git

Oct. 2024 - Present

- Designed a UML diagram to plan project structure and implemented the UI with JavaFX
- Developed a Java garden simulation to manage four plant types following OOP principles
- Handled plant interactions and growth behaviors through method overloading for 15 input commands

DALL-E Clone — MongoDB, Express, React, Tailwind, Git

Oct. 2024 - Present

- Developed a web app using DALL-E API to generate images based on user prompts or random prompts feature
- Integrated MongoDB Atlas and Cloudinary to store and display images in a real-time community gallery page
- Designed a responsive UI with Figma, React and Tailwind CSS, connected to an Express backend server

Playlist Battle — Django, React, Axios, Git

Sep. 2024

- PROBLEM SOLVED: a social media platform to share and compete through music playlist ranking based on likes
- Built a feature to add songs to existing playlists, using React for the UI and Django for database integration

Spreadsheet Web App — HTML/CSS, JavaScript, Git

Mar. 2024 – Apr. 2024

- Built a dynamic web spreadsheet using HTML/CSS, and JavaScript with features to add and sum rows/columns
- Implemented custom cell formatting with JavaScript & CSS, allowing users to format cells (font, color, size, etc.)

ACTIVITIES & LEADERSHIP

Content Creator: Posting 100 days on LinkedIn, sharing my journey in tech industry

Oct. 2024 - Present

LabCoat (Developer): Building a Handshake-like platform to connect students and labs

Oct. 2024 - Present

Vietnamese Student Association: Lion dancer and volunteer for annual club events

Aug. 2023 - Present