

# Ayush Bhanushali

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## EDUCATION

**Stony Brook University | Stony Brook, NY**

**Bachelors of Science in Computer Science | GPA: 3.42 (Dean's List)**

**Expected Graduation: May 2027**

**Relevant Courses:** Data Structures, System Fundamentals 1, Applied Linear Algebra, Intro to Data Science

## WORK EXPERIENCE

**Software Engineering Intern | Stealth AI Startup | San Francisco, CA**

**July 2025 - Current**

- Created AI agents using **MSCopilot Studio** and **AWS Bedrock** connected to a **MCP** server and knowledge base for cybersecurity testing purposes
- Modified and deployed a weather agent MCP server in **TypeScript** on **Google Cloud Provider**
- Developed a Python scraper to aggregate MCP servers from **7** online sources, automatically populating results into Excel/Google Sheets for streamlined tracking and analysis

**Programmer & IT Technician | Stony Brook DoIT | Stony Brook, NY**

**Feb 2025 - May 2025**

- Developed a **C# API** to authenticate Stony Brook users via **Single Sign-On (SSO)**, using **LDAP** and **Active Directory** to verify admin roles and permissions; adopted by over **10** administrators for daily operations
- Created a favorites feature on **React** Heat Sensor Dashboard & administered bug fixes on a Printer Dashboard

**Software Developer | Umee | Fairfax, Virginia**

**December 2024 - March 2025**

- Optimized serverless architecture for a Flutter chat app, reducing AWS costs by **50%** by re-architecting messaging workflows with **AWS SNS, S3, and Lambda functions**
- Engineered backend functionality for gym social app profiles in Flutter, integrating **AWS Amplify** and **S3** to enable secure uploads and reduce profile load time by **60%**

**Software Engineering Intern | Geninvo | Bloomington, Illinois**

**June - August 2023**

- Designed and collaborated on a new product, **ApoGi**, an end-to-end platform used by **Eli Lilly** and others to automate clinical study deliverables using **AI** and **ML** libraries, increasing automation speed by **70%** compared to the old platform
- Built Python pipeline leveraging **Sentence Transformers (Hugging Face)** to automate comparison of **CSR** and **RTF** documents, reducing manual review time by **80%** across **100+** pharmaceutical trials
- Developed a program to generate coordinates and extract text from clinical trial documents using **Tesseract OCR**, achieving **90%** accuracy and saving **\$500/month**

## PROJECTS

**Cashbackify | React Native, Node, Express, Google Firestore**

- Developed a **React Native** app to help users maximize cash-back rewards by recommending the best credit card for each purchase, increasing average savings by **10%** using a text similarity **ML algorithm**
- Built Node.js/Express API with Google Firestore to deliver real-time cashback recommendations and manage user data

**Individual Info | <https://github.com/ayushb2005/Individual-InfoAPI> | Node, Express, React, MongoDB**

- Developed a Node.js/Express API with MongoDB, using indexing to reduce retrieval time by **30%**
- Built a React front end with two teammates and managed authentication/access for **100+** tutoring users

**RapidCart | <https://github.com/ayushb2005/RapidCart> | React, AWS EC2, Spring Boot, MongoDB, NGINX**

- Built a responsive e-commerce app with React, Spring Boot, and MongoDB, reducing query time by **30%** through indexing
- Deployed on AWS EC2 with NGINX for load balancing and scalability

**Pure | AI Cancer Detection Model | Hackathon Project (4th/50 teams) | PyTorch, React, Flask, MongoDB**

- Developed an AI model that achieved **98% accuracy** in detecting malignant/benign cancer from image scans using **PyTorch**
- Created the front end with React, connecting it to a **RESTful** server-side API built with **Flask**, and storing data in **MongoDB**

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Stony Brook University Web Development Club | Event Coordinator**

**October 2024 - Current**

- Led biweekly project-based workshops on advanced web development (GPT wrappers, web scraping, ML model visualization, app development, front-end frameworks, and real-time dashboards) to cultivate full-stack skills.
- Orchestrated technical events, including React/HTML/CSS workshops and the club's largest event with **89+** attendees

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, HTML/CSS, C, C#

**Frameworks:** Spring Framework, Express/Node.js, React, React Native, TailwindCSS, FastAPI, PyTorch, Flutter

**Tools:** AWS, Git, Docker, Jira, Jupyter, Linux, Google Cloud Provider, MongoDB, Google Firestore, Excel

**Concepts:** Software Engineering, Frontend, Backend, API Design, Full-Stack, Agile Methodologies