Yash Tamhane He/Him/His

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Education

Stony Brook University   **Stony Brook, NY**

Bachelor of Science in **Computer Science**, *specialization in* **Security and Privacy**.   *GPA: 3.48*

Relevant Coursework: *Software Development, Computer Security Fundamentals, Data Structures, Analysis of Algorithms, Systems Fundamentals II, Intro to Theory of Computation, Legal Issues in Computing, Programming Abstractions, Survey of Probability and Statistics, Finite Mathematical Structures*

Certifications

- SevenMentor **Cisco Certified Networking Associate** certification
- SevenMentor **Ethical Hacking** certification
- SevenMentor **Red Hat Linux**

Experience

Undergraduate Research Assistant, *Stony Brook University, NY*   *Jan 2024 - May 2024*

Vertically Integrated Project

- Designed a privacy-preserving **data sharing system for 5 distributed agents** using AES encryption with **PyCryptodome**, securing real-time communication.
- Integrated **cryptographic protocols** to ensure data **integrity** and **confidentiality** for **500+ sensitive data** exchanges.
- Optimized encrypted **data processing** with machine learning models, **improving efficiency by 20%** while ensuring privacy.

Undergraduate Teaching Assistant, *Stony Brook University, NY*   *August 2024 – Present*

Object Oriented Programming in Java

- Supervised **two 80-minute weekly** lab sessions for **40+ students**, guiding object-oriented programming and coding exercises.
- Graded labs, quizzes, homework, and exams, ensuring **consistent evaluation** based on course standards.
- Collaborated with the instructor to **prepare materials**, **deliver office hours**, and **support student** understanding of programming concepts.

Division of Internet Technology - CES Classroom Technology, *Stony Brook University, NY*   *October 2024 - Current*

Technology Maintenance Assistant

- Set up and broke down **audio-visual equipment** for classrooms, ensuring smooth operation for daily lectures and events.
- Addressed and resolved **daily technical issues** reported by support staff, minimizing disruptions to class activities.
- Compiled and submitted **detailed nightly reports** summarizing shift activities, facilitating seamless communication with daytime supervisors.

Projects

Stack Overflow like Web Application   *Feb 2024 - May 2024*

- Built a **full-stack** Q&A platform with **100+ active users** using **React**, **Node.js**, and **MongoDB**.
- Implemented **secure user authentication** with **JWT** and **Bcrypt**, ensuring **data protection** (Node.js, Express).
- Designed **RESTful APIs**, **improving performance by 30%** for a smooth, scalable experience (Node.js, MongoDB).

Real-Time Stock Price Data Scraper from Yahoo Finance   *June 2024 - July 2024*

- Developed a **Python scraper** to extract real-time stock **data for 50+ companies** from Yahoo Finance (BeautifulSoup, Requests).
- **Parsed** and stored **financial metrics** for trend analysis (Python, Pandas, CSV).
- Automated **updates every 15 minutes** with **Cron Jobs** and email notifications for significant price changes (Python, SMTP).

Emergency Contact QR Code System for Cars   *June 2024 - August 2024*

- Created a QR code solution for **fast access to emergency contact** details in **under 5 seconds** (React, Node.js).
- Ensured **real-time updates** and **secure data storage** (Node.js, MongoDB, HTTPS).
- Developed a **user-friendly interface** for **efficient** emergency information access (React, QR Code API).

Skills

- **Languages**: Python, JavaScript, SQL, HTML, CSS, C, OCaML
- **Web Development**: React, Node.js, Express, RESTful APIs
- **Tools & Security**: Git, GitHub, JWT, HTTPS, Postman, QR Code API, MongoDB
- **Soft skills:** Communication, Problem-Solving, Adaptability, Teamwork and collaboration