

# TUSHIN KULSHRESHTHA

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## EDUCATION

### **Bachelor of Science, Computer Science**

San Francisco State University, San Francisco, California

2021 - Present

## TECHNICAL SKILLS

Strategy, Leadership, Planning, Python, SQL, Java, JavaScript, CSS, HTML, C, C++, Excel, MATLAB, Database Entry, Team Collaboration, NodeJS, MS Office, Linux Terminal, Django, Data Structures, Web Development, Cloud Computing on AWS EC2.

## AWARDS & RECOGNITION

- **GMIS Hackathon** – Secured 5<sup>th</sup> position among 60 other teams in a cybersecurity hackathon and received special category in Forensics for Memory Dump Analysis, Network Analysis using Volatility Tool, and using steganography decrypted messages.

## WORK EXPERIENCE

### **Assistant to Vice President, San Francisco State University, San Francisco, USA**

2022 – Present

- Orchestrated University Committee Meetings, consistently adhering to open meetings laws, resulting in 100% compliance throughout tenure.
- Skillfully developed and distributed comprehensive agendas for most committee meetings, resulting in improved organization and transparency within the organization.
- Directly engaged with 200+ university organizations, leading to a 90% success rate in funding approvals, strengthening financial support for various campus groups.
- Collaborated effectively with a diverse team of 10 peers, fostering a cooperative atmosphere that improved overall committee productivity and efficiency.

### **Full Stack Developer and Back-end Lead Intern, Glitter Fund, San Francisco, United States**

June 2023 – Present

- Developed a dynamic web application using the Django framework, which encompassed over 15,000 lines of Python, HTML5, CSS, and JavaScript code, providing users with a feature-rich experience.
- Expertly integrated RESTful API services, with a specific focus on the Tradier API, which contributed to a 30% increase in real-time data accuracy within the web application.
- Spearheaded the development of the entire backend infrastructure and played a pivotal role in crafting over 70% of the frontend codebase from scratch, ensuring a comprehensive and robust nature of the web application.
- Utilized an AWS EC2 instance as the web server, which hosted the application and ensured an impressive 99.9% uptime, providing uninterrupted service to users.
- Implemented Caddy for deployment, resulting in a 100% improvement in SSL certification, which significantly enhanced user trust and security in the application.

## PERSONAL PROJECTS

### **Text-to-Speech**

- Developed a Text-to-Speech application in Python using the pyttsx3 library, coupled with an intuitive tkinter-based GUI.
- Created a user-friendly interface for converting text input into natural-sounding speech.
- Composed approximately 1000 lines of Python code for the project, reflecting a substantial coding effort.

### **Glitter Fund Stock Options Filter**

- Created a web-application that enables users to filter through stock options with a portfolio of \$1000 and under.
- Developed a robust web application using Django Framework and RESTful web API integration with Tradier API; improved data fetching process, reducing latency by 40% and enhancing overall website performance.
- Implemented HTML5 and CSS3 on the whole website for better accessibility.
- Used AWS EC2 instance as the server for making the WebApp live (Link to the WebApp: <https://glitterfund.xyz>).

### **ConnectX, Local Server Messaging Client**

- Created a comprehensive project comprising over 20 files and 15 classes, showcasing a well-organized and structured codebase.
- Contributed approximately 3000 lines of code to the web-based messaging client, emphasizing a deep understanding of web development, front-end, and back-end programming.
- Proficiently collaborated with multiple Java files and classes to achieve project objectives.
- Designed and implemented a secure web application-based messaging client hosted on a Raspberry Pi 3-based localhost server, highlighting expertise in web development, server configuration, and system administration.
- Created filter to filter out IP addresses to allow certain specific users to access the server only and increased server security by 80%.
- Demonstrated strong problem-solving skills by resolving issues and debugging code, maintaining a reliable and bug-free messaging client.

### **Speech To Text**

- Independently designed and implemented a speech-to-text application in Python, leveraging the capabilities of the pyttsx3 and speech recognition libraries.
- Leveraged the speech recognition library to achieve an impressive recognition accuracy rate of over 90%, providing users with a reliable and robust speech-to-text experience.
- The project comprised approximately 800 lines of Python code, reflecting a significant coding effort and an in-depth understanding of the libraries and technologies used.

### **Portfolio Website**

- Designed and developed a dynamic portfolio website using a technology stack that includes HTML5, CSS3, JavaScript, and Node.js.
- Enhanced website accessibility by implementing HTML5's new semantic tags.

## CERTIFICATIONS

- **JP Morgan Software Engineering Virtual Experience** | Forage
- **VISA Token Service Technology Virtual Experience Program** | Forage

