Stella Yang

Software Engineer

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EDUCATION

TEXAS A&M UNIVERSITY   COLLEGE STATION, TX
BS in Computer Science, Minor in Cybersecurity and Math   Aug 2021 - May 2025
- Engineering Honors - GPA: 3.97/4.0
- Undergraduate Thesis: Test-Driven Regular Expression Program Synthesis
  - heuristic-based search and procedural deterministic finite automata construction

EXPERIENCE

SALESFORCE   SEATTLE, WA
Software Engineering Intern   May 2024 - Aug 2024
- Applied real-world open-source applications to Heroku's new platform using Kubernetes and Cloud Native Buildpacks, identifying build issues and collaborating with engineers to diagnose and resolve them.
- Automated testing of Getting Started Guides with GitHub Actions, enhancing first-time user experience.

TEXAS A&M UNIVERSITY COMPUTER SCIENCE AND ENGINEERING DEPARTMENT   COLLEGE STATION, TX
Lead Teaching Assistant   AUG 2023 - DEC 2024
- Guided students through the transition from basic programming to collaborative product development, focusing on teamwork, software design, and project management.
- Provided debugging support in SQL, Java, Bash, and other languages used by students for their projects, addressing both technical issues and conceptual misunderstandings.
- Supported fellow TAs without prior experience in course material, helping them grasp course concepts quickly and maintain a cohesive and effective instructional team for students.

SANDIA NATIONAL LABORATORIES   ALBUQUERQUE, NM
Software Engineering Intern   May 2023 - Feb 2024
- Built monitoring systems to collect and process data into Elastic stack, supporting autonomous observatories in space situational awareness projects.
- Created, organized, and visualized crucial data for two space situational awareness initiatives, providing clear operational overviews.

DATALOGZ   BERKELEY, CA
Data Engineer Intern   Apr 2022 - Aug 2023
- Generated detailed reports on high-traffic Snowflake database areas using Python and Pandas to assist executives in managing data assets.
- Constructed PII detection tools to streamline GDPR compliance efforts.

PROJECTS

CYBERSECURITY CLUB MANAGEMENT BOT
Tech Lead Officer   Aug 2021 - Jun 2024
- Engineered software solutions to streamline club logistics and boost member engagement.
- Led a 10-person team to maintain and expand features, including user-friendly dashboards for sponsors.
- Gained hands-on expertise in binary exploitation, reverse engineering, penetration testing, and OSINT.

DISCORD ENTERTAINMENT BOT
Lead Developer   Dec 2020 - May 2022
- Conceptualized project to encourage community engagement and activity through Python and SQL.
- Organized team of four developers to serve over 67K users.
- Empowered users with a dynamic economy system, an engaging leaderboard, collectible figures, personalized birthday reminders, and robust moderation tools, elevating their experience.

ADDITIONAL INFORMATION

- Programing Languages: Python · Ruby · HTML · CSS · Java · javascript · C++ · C · bash · SQL
- Tools/Platforms: git · Cloud Computing · Linux · React · Rails · Elasticsearch · Kibana · REST APIs · regex
- RSA Conference Security Scholar 2025