Abhishek Govindarasu

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EXPERIENCE

Software Developer - AI Trainer Remote
DataAnnotation *April 2024 – Present*
- Design and develop prompts for code models specifically targetting HTML/CSS/JS, Python, Java, and Go outputs
- Validate outputs of multiple code focused LLM models for accuracy and security across code samples over various languages

ServiceNow Developer La Jolla, CA
University of California, San Diego *December 2022 – Present*
- Lead major refactor and migration of Talkdesk system integration, 500,000+ phone logs with no production interruptions
- Intoduce Docusign API and Docusign Connect integration with the UC San Diego IT support page
- Build and upgrade various application scopes such as Service Portal and HRSD catering to customer requirements
- Contribute to over 15% of weekly releases of the ITS-SNOW team while remaining a full-time student

Service Desk Technician La Jolla, CA
University of California, San Diego *August 2022 – December 2022*
- Provide timely and effective technical support to end-users by troubleshooting hardware, software, and network issues
- Collaborate with internal and external specialized technical departments to efficiently resolve issues

ACTIVITIES

Capture The Flag *June 2022 – Present*
- CTF Player and Captain for L3ak since July 2023, currently ranked **top 20 globally** on CTFTime
- Build infrastructure for L3akCTF across 7 servers (AWS, Google Cloud, StackIT) ensuring no downtime during the event
- Develop CI/CD pipeline for automatic Docker build releases using Github Container Registry for 25+ services
- Notable Achievements: AkasecCTF 2024 (1st Place), BlueHensCTF 2023 (2nd Place), UofTCTF 2024 (3nd Place),
  SunshineCTF (3rd Place), Lexington Informatics Tournament CTF 2023 (3rd Place), BuckeyeCTF 2023 (3rd Place)

Security Research
- Discover and report **CVE-2023-41039**, a sandbox escape in the ZopeFoundation's RestrictedPython library

PROJECTS

Academic Projects | *C, C++, Python, Java* August 2022 - Present
- Develop file compression program in C++ utilizing Huffman Coding Algorithm
- Implement Data link layer utilizing Sliding Window and selective retransmission in C
- Train BERT Transformer for intent classification on Amazon MASSIVE dataset using PyTorch

WebUtils | *Python* November 2023 - Present
- Assemble a series of commonly used and useful utilities for automating and solving CTF web challenges
- Write useful developer tools for communicating with Websockets, hosting HTML, interacting with webhooks, etc

Market Simulator | *Python, Flask, Redis, SQL* March 2023 - Present
- Write Python backend utilizing Finnhub API to stream stock market trades with Websockets
- Utilize Redis to cache option chain data and stock quotes to lighten server load and reduce API usage
- Implement Sqlite database with account management and JWT authentication to allow users to trade and manage assets

Touchdown (touchdown.life) | *HTML, CSS, Javascript* July 2022 – August 2022
- Develop the touchdown.life website (web game), achieve 1000+ daily active users
- Implement graph data structure and traversal algorithm in Javascript to model and generate daily games

EDUCATION

University of California, San Diego La Jolla, CA
Bachelors of Science in Computer Science, 3.81 /4.0 GPA *August 2021 – May 2025*
- **Coursework:** Data Structures, Algorithm Design and Analysis, Operating Systems, Computer Security, Software
  Engineering, Machine Learning, Computer Vision, Database Systems and SQL, Cryptography
- **Organizations:** Association for Computing Machinery, ACM Cyber, SDCTF 2024 Challenge Author

SKILLS

- **Languages**: HTML/CSS/Javascript, Java, Python, PHP, SQL
- **Frameworks/Libraries**: React.js, Preact.js, Sqlite, Redis, JDBC, Pandas, OpenCV, Matplotlib
- **Tools**: Docker, Git, Github, Kubernetes