Abhishek Govindarasu

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EDUCATION

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

EXPERIENCE

ServiceNow Developer   La Jolla, CA
University of California, San Diego   *December 2022 – Present*
- Led seamless migration of 500k+ call records during Talkdesk integration refactor with zero production downtime.
- Developed a custom CLI tool to automate user role migration during Confluence Cloud transition, saving 400+ hours of manual work.
- Refactored Tririga integration, improving data retrieval performance by 70% through optimal API usage and algorithm enhancements.
- Created graphical UI applications for Kuali Build using GraphQL, simplifying administrative tasks for permission management.
- Optimized API integration with ServiceNow and third-party systems, reducing data processing times and improving system reliability.
- Implemented and customized DocuSign integration, automating document dispatch and improving document management workflows.
- Performed extensive testing and debugging of ServiceNow applications, improving stability and security across multiple modules.
- Worked with cross-departmental teams to develop forms and workflows in ServiceNow, streamlining processes for HR and Finance.
- Identified and resolved critical security vulnerabilities in our SNOW instance, including the ServiceNow Widget exploit.

Software Developer - AI Trainer   Remote
DataAnnotation   *April 2023 – December 2023*
- Validate outputs of multiple code focused LLM models for accuracy and security across code samples over various languages

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.

ACTIVITIES

Capture The Flag   *June 2022 – Present*
- Competed in CTFs for 4+ years with a focus on web application security and code sandbox exploitation.
- Built integration pipelines with GitHub Workflows and Docker to automate containerization and deployment of CTF challenges.
- Reviewed hundreds of backend and frontend codebases across languages, including Python, JavaScript, Java, and Ruby.
- Designed and deployed scalable infrastructure for CTF challenges using Docker, GitHub Actions, and AWS.
- Led infrastructure development for L3akCTF 2024, managing multiple servers and ensuring secure and stable hosting for participants.
- Developed strong debugging skills, allowing rapid identification and exploitation of vulnerabilities in CTF challenges.

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

PROJECTS

Secret (https://secret.ahh.bet)   August 2024
- Develop a web application for securely generating one-time links to sensitive text preventing exposure in message logs
- Utilize Hono and Cloudflare Edge workers for backend for speed and scalability
- Implement Cloudflare D1 serverless database with Drizzle ORM for storage and API operations

What Notepad (https://what.ahh.bet)   April 2024
- Build a minimal and modern markdown notepad with local-first note storage for easy note taking online
- Implement GitHub OAuth login for persistent note access across devices, automatically synced while working
- Utilize serverless PostgreSQL database to manage migrations and transactions for logged in users

Touchdown (https://touchdown.life)   August 2022
- Develop the touchdown.life website (web game), achieve 25,000+ unique users
- Automate web scrapping, parsing, and creation of player teammate datasets using custom Python script
- Implement graph data structure and traversal algorithm in Javascript to model and generate daily games

SKILLS

- **Languages**: Python, JavaScript, TypeScript, HTML/CSS, Java, PHP, SQL, Go

- **Frameworks/Libraries**: Flask, React, NextJS, Express, PostgreSQL, SQLite, Angular.js, JDBC, GraphQL, JUnit, Jest

- **Tools**: Linux, Docker, Git, Github, Cloudflare, GCP, Redis, Kubernetes, Puppeteer, Grafana