Shuaib Ahmed

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EDUCATION

University of California, Davis   **Davis, CA**
B.S. in Computer Science (GPA: 3.94)   *Expected Graduation: June 2026*
- Relevant Coursework: Object Oriented Programming, Data Structures & Algorithms, Discrete Math, Operating Systems

PROFESSIONAL EXPERIENCE

Software Engineer Intern @ **Amazon Web Services (AWS)**   *Sept. 2025 - Dec. 2025*
- Incoming Fall 25' working on applied AI

Software Engineer Intern @ **Meta**   *June 2025 - Sept. 2025*
- Engineered and scaled distributed age-verification pipelines on Facebook and Instagram, handling **100K+** requests daily
- Built and integrated a new API to surface detailed age verification error reasons, increasing successful user retries by **55%**
- Deployed state tracking for asynchronous listeners, enabling real-time, dynamic status updates during verification flows.
- Led A/B experiments on **300K+** users and launched features to enhance verification pipelines serving **1M+** monthly users.

Software Engineer Intern @ **[DeepTrust](#)**   *Jan. 2025 - Present*
- **Open source contributor** to **TerifAI,** a real-time voice cloning AI system that replicates user voices in **<10** seconds
- Implemented a dynamic prompt selection system supporting **6** different AI personas, increasing user engagement
- Integrated **OpenAI, ElevenLabs, and Cartesia** into a unified pipeline architecture, processing **1000+** frames per minute
- Built a scalable backend that processes real-time audio streams while maintaining **<100ms** latency for voice cloning ops

Software Engineer Intern @ **GEICO**   *June 2024 - Aug. 2024*
- Developed a novel CRM tool for customer service accessibility with integration of virtual assistant/live agent transfer.
- Engineered a transformer-based virtual assistant for AI support, achieving **95%** accuracy rate in query resolution
- Implemented Salesforce API integration which currently receives over **8,000** requests per day from users nationwide
- Enhanced customer service efficiency by ~**13%** and increased the capacity for simultaneous customer assistance by **9%**.

Research Assistant @ **UC Davis (PI: [Dr. Zubair Shafiq](#))**   *June 2023 - Present*
- Research in applications of adversarial machine learning and generative models for web security and internet privacy.
- **Project 1: Co-authored** paper performing first large-scale study investigating sophisticated bot detection evasion against commercial anti-bot services. Analyzed adversarial bot fingerprints to uncover recurring inconsistencies and utilizing FGSM on deep learning models to produce methods for more accurate bot detection.
- **Project 2:** Developing an innovative technique for device fingerprinting by examining the distinctive patterns on processors induced by power viruses to generate unique fingerprints for individual devices.

Software Engineering Intern @ **[Volt](#)**   *Sept. 2023 - Dec. 2023*
- Collaborated on a cross-disciplinary team of 10 to create an application displaying cost statistics and revenue data.
- Utilized cutting-edge technologies to implement a backend powered by a **FastAPI** server in **Python** and **PostgreSQL** managing over **2000** data entries, and a **React** frontend application with **JavaScript**
- Oversaw the creation of API endpoints for functions such as returning dashboard data, specific customer data, and report generation, displaying over **1500** entries of company statistics

Co-founder/Lead Developer @ **TimeSync -** *Scheduling App*   (**GitHub***: [/TimeSync](#)*)   *Apr. 2023- Oct. 2023*
- Led a team of 2 software engineers to develop a full stack application with daily development meetings
- Released application as beta, providing scheduling services to **23** users across **5** organizations
- Implemented advanced optimizations, including event descriptions, customizability, server optimization processes that increased API endpoint communication speed and data transfer speed to the database by **25%**
- Accepted into StartUpDevKit 3-month accelerator program

PROJECTS

Vivid - *Community Image Generation Application*   (**GitHub***: [/Vivid](#)* | **App** *: [Vividbeta](#)*)   *June 2023 - July 2023*
- Developed a MERN web application, that efficiently converts user descriptions into images using DALL-E API
- Ensured data persistence and retrieval through MongoDB database currently storing information on **20+** users & **35+** posts
- **Technologies:** MongoDB, Express.js, React.js, Node.js, Netlify, OpenAI API, Cloudinary API

RESEARCH PUBLICATIONS

[1] FP-Inconsistent: Detecting Evasive Bots using Browser Fingerprint Inconsistencies [[Paper](#)]
Hari Venugopalan, S. Munir, **Shuaib Ahmed**, T. Wang, Samuel T. King, Zubair Shafiq. **[ACM IMC '25]**

SKILLS / INTEREST

Languages: C/C++, Python, JavaScript, HTML, React.js,, Node.js, Linux/Unix, Java, Angular, Kotlin, MySQL, PostgreSQL
Technologies: Flask, Heroku, MongoDB, Tensorflow, API Management, Git,NoSQL, Microsoft Offices, Golang, Jira, AWS, PyTorch,Keras