Bassem Halim

Tustin, California

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Education		
University of California, Berkeley		Dec. 2022
Bachelor of Science in Electrical Engineering and Computer Science		Cumulative GPA: 3.54/4.00
Relevant Coursework:		
Operating Systems (C, x86), Data Struc	ctures and Algorithms (Java), Machine	Structures (C, RISC-V), Efficient
Algorithms, Embedded Systems (C), A	I, Cyber Security, Databases, Compute	er Vision, Machine Learning
Work Experience		
Software Developer - AI Trainer	ScaleAI	Dec 2023 - Present
• Writing performant code, and rating AI	responses to generate high-quality tra	ining data for large language models.
Software Developer	link.xceedcore.com	Jan 2024 - Present
• Created a Google reviews growth platfo their online reputation.	rm that helped business owners get m	tore than 7 reviews per day and improved
• Developed and deployed the full-stack p	olatform using Next.js, Firebase, Tailw	rindCSS, Chakra UI, and Docker.
Software Engineer Intern	pi-lit	May 2022 - Aug 2022
• Wrote a custom driver in both C and Py	thon for a GPS module that uses UAI	RT for communication.
 Enhanced an internal logging tool's efficiency retrieval instead of polling. 	ciency by 30%, as measured by CPU u	itilization, by using interrupts for data
Software Projects		
Real-Time Chatroom Go, Gin, PostgreSO	OL, React, TS, TailwindCSS, Dock	ter July 2023 - July 2023
• Created a full-stack chat room app with		
		' tokens) and efficient message storage and
• Developed a scalable message upvote an	nd downvote feature by using record l	locks.
Video Streaming Server Python, OpenCV	V, NumPy	June 2023 - June 2023
• Developed a web server to generate a vi	ideo stream showcasing a bouncing ba	Ill animation.
• Established a secure WebRTC video str	eam to clients utilizing TCP socket sig	gnaling.
• Used openCV to estimate the ball's post	ition and transmit the estimates back t	to the server through a data channel.
Cyclopath Java, Spring Boot, TS, React N	Native, Playwright, DynamoDB, S3	Mar. 2023 -Dec. 2023
• Developed a full-stack cycling fitness ap distance, and speed.	p providing users with detailed worko	out information, including route, weather,
• Utilized AWS DynamoDB to store work	kout details and S3 to store the genera	ated workout static maps.
• Integrated Mapbox Maps API and a we	eather API for route visualization and	workout insights.
End-to-End Encrypted File Sharing system	n Go, Cryptography	Mar. 2022 - May 2022
• Built an End-to-End encrypted file-shar	ring system with a file share and revok	e functionality
• Designed an algorithm to securely and e	efficiently store, load, and append to fi	iles.
• Used asymmetric encryption to share fil	les securely using public key encryption	n and digital signatures.
PintOS C		Feb. 2022- May 2022
• Worked in a team of 4 to implement var	rious functionalities in an educational (OS for the x86 architecture.
• Implemented the functionalities to creat	te threads, fork processes, and pass arg	guments to user programs.
• Improved the file system speed by an av	verage of 40% by adding a buffer cach	e.
Skills		
• Languages: Java Python C SQL HTML	CSS JavaScript Go C++ x86 RIS	C-V

- Frameworks/ libraries: Spring Boot | Django | React.js | NumPy | OpenCV | Gin | Pandas | Playwright | Next.js | ChakraUI
- Database: Amazon Web Services(DynamoDB, S3) | PostgreSQL | MongoDB | Firestore
- Tools: Git | Linux | software development | OOP | JWT | Postman | OpenMP | SIMD | WebRTC | Websockets | Docker