Justin Westley

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EDUCATION

Stevens Institute of Technology   Hoboken, NJ
Bachelor of Engineering in Computer Engineering, Minor in Computer Science; GPA: 3.72   *Aug 2016 – May 2020*

EXPERIENCE

Meta   New York, NY
Software Engineer   *Feb 2025 – Present*

– Engineered embedded firmware and libraries enabling real-time EMG-based gesture recognition on neural wristbands for use with Meta wearable glasses and other future devices.
– Built end-to-end digital signal processing validation frameworks, improving test coverage and model reliability.
– Optimized on-device ML execution with research teams, improving model accuracy and measurement fidelity.
– Designed memory subsystem reducing device footprint by 25% (1000 kB+), enabling larger models.
– Led cross-functional investigation with ML and research science teams resolving numerical calculation discrepancies between theoretical and on-device models.

Amazon Web Services (AWS)   Seattle, WA
Software Development Engineer II – Elastic Compute Cloud (EC2)   *Jul 2021 – Oct 2023*

– Expanded AWS Edge infrastructure to dozens of global locations, enabling ultra-low-latency compute for multiple AWS services.
– Owned and operated a high-scale service processing 60K+ TPS with high availability.
– Built guardrails to prevent customer billing errors and resource cleanup failures.
– Designed distributed system to audit live networking data, preventing misconfigurations.
– Migrated legacy relational store to DynamoDB, improving throughput and resilience.

Amazon   Seattle, WA
Software Development Engineer I – Alexa Shopping   *Jul 2020 – Jul 2021*

– Launched international Prime sign-ups and free-trial flows on Alexa, expanding voice commerce globally.
– Implemented multi-factor authentication for voice purchases (EU compliance).
– Built backend systems for limited-time promotions handling peak retail traffic.
– Developed customer-data auditing/deletion services for privacy compliance.
– Led security reviews and capacity planning for multiple distributed services.

JPMorgan Chase & Co.   Brooklyn, NY
Software Engineering Intern   *Jun 2019 – Aug 2019*

– Built real-time dashboard monitoring uptime and application dependencies.
– Developed full-stack React/Redux/Node.js platform automating internal workflows.
– Designed scalable MariaDB schema supporting long-term analytics.
– Implemented RESTful APIs for ingestion and data retrieval.
– Presented architecture to senior leadership; selected for potential enterprise rollout.

TECHNICAL SKILLS

Languages: Python, C++, Java, TypeScript, JavaScript, SQL, Assembly, Ruby, HTML/CSS

Systems & ML: Embedded systems, DSP, on-device ML, microcontrollers, real-time systems

Tools: Docker, Kubernetes, Node.js, React, Redux, Git, MySQL, MongoDB

Cloud: AWS (EC2, Lambda, DynamoDB, S3, SQS, SNS, VPC)

Methods: Distributed systems, systems design, Agile/Scrum