

# Thibault Willmann

Passionate **full stack software engineer** with over 4 years of experience currently working at Amazon on internal livestream services in the Bay Area. Eager to improve a widely used and beloved product using top-notch coding skills.

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## Work Experience

04/2023 - Present  
Palo Alto, USA

**Software Development Engineer II (L5)** / [Amazon](#) (Enterprise Engineering → Livestream Internal)

- Presently leading livestream emoji reactions feature for Amazon internal livestream service from technical design, security and accessibility review to a React interface, GraphQL API and AWS infrastructure implementation, boosting viewer engagement and providing key insights to event organizers through a real time dashboard.
- Implemented a mobile-friendly, accessible, and responsive layout for the new Amazon internal livestream website enhancing the viewing experience for 6.7k unique mobile viewers during the last Amazon All Hands livestream.
- Volunteering to provide security guidance to Enterprise Engineering teams throughout the development lifecycle as a certified Amazon Security Guardian (attained in May 2023) leading to more secure on-time product launches.

02/2021 - 03/2023  
Seattle, USA

**Software Development Engineer (L4)** / [Amazon](#) (Enterprise Engineering → Livestream Internal)

- Collaborated with a cross-functional team to develop a new Amazon internal livestream website, utilizing a Typescript & React front-end and an AWS backend. Took ownership of an event organization portal and page routing, resulting in a successful launch and hosting of 16k livestreams as of October 2023.
- Established extensive library of shared React interface components for the Enterprise Engineering organization, significantly expediting the front-end development of new products and features by several weeks.
- Introduced private livestreams (restricting viewership to specific teams and / or people) by revamping the authorization infrastructure for two legacy Ruby on Rails Amazon internal livestream websites resulting in around 65% of livestreams set as private in 2022.

07/2020 - 01/2021  
Remote, Germany

**Lead Software Engineer** / [HomeHero](#) (Israeli real estate tech startup)

- Revolutionized HomeHero's real estate agent's market knowledge by scraping daily automatically Israel's leading listing portal into a customized Salesforce CRM leveraging knowledge in AWS and Python resulting in 2x faster sales: [Yad2 Apartment Scraper](#) [Github].

09/2019 - 06/2020  
Herzliya, Israel

**Software Engineer** / [HomeHero](#)

- Simplified property search experience for Israeli real estate buyers and increased number of leads by 10k yearly for HomeHero's real estate agents by developing an AI powered personalized Facebook Messenger chatbot [Baitman](#) [Github] utilizing AWS and integrating with a Salesforce CRM and HomeHero's MySQL database.

## Education

09/2016 - 09/2019  
Herzliya, Israel

**Bachelor of Science in Computer Science** (Cluster in Business Administration) / [Reichman University](#)

- Relevant Coursework: Scientific Computing with Python, Deep Learning with Python, Machine Learning from Data, Computer Vision, Computer Networks, Operating Systems, Functional Programming, System Programming in C

Academic Project: [Radiologist-Level Disease Detection on Chest X-Rays](#) [Github]

- Implemented a deep convoluted neural network using PyTorch that calculates from chest X-ray images the probabilities for different diseases. Led data preparation, model training and accuracy assessments.

09/2014 - 06/2016  
Kiel, Germany

**Abitur** (specialization in Physics) / [Gymnasium Kronshagen](#)  
including SAT, TOEFL English Proficiency, Mathematical Kangaroo test

**Internship** 2015: [CIIEC](#) (Cognitive Interaction Technology Center of Excellence, Bielefeld University)

9/2005 - 06/2006

**Student Exchange** (in Dunedin, New Zealand) / [St Clair Primary School](#)

## Skills

**Coding** AWS, CSS, Git, GraphQL, HTML, Java, JavaScript, Jest, Python, React, Redux, SQL, Swift, Typescript, Unix shell

**Languages** Chinese (elementary), English (native), French (native), German (native), Hebrew (Ulpan Level Aleph)

**Certifications** Grokking Modern System Design Interview for Engineers (Educative, Oct 2023), Amazon Security Guardian (May 2023)