

Thomas Jack PARKER

Passionate software engineer with experience leading teams on delivering efficient solutions to complex problems.

CONTACT DETAILS

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WORK EXPERIENCE

FEB 2023 - NOW

Senior Software Development Engineer (L6) - Amazon Advertising

- Technical lead on the geo targeting team driving the technical roadmap and high level system designs, while also coaching the team on delivering them.
- Developing ad traffic scaled microservices with high throughput (>20M TPS) and low latency requirements (<10ms).
- Participating in the interviewing process to help build the team.
- Experience driving cross-team alignment on technical solutions through design docs written for both technical and non-technical readers.

SEP 2019 - FEB 2023

Software Development Engineer (L5) - Amazon Advertising

- Built big data pipelines to deliver product features, and devised efficient mechanisms to share these datasets with internal customers.
- Built customer facing frontend applications using React, while also utilizing the microfrontend architecture to improve our team's ability to improve on our product independently.
- Designed and helped build public API solutions for external programmatic integrators.
- Developed technical implementation plans for a feature launch that involved cross-org collaboration, while consolidating product functionality within the team's own infrastructure to enable us to deliver faster in future.

AUG 2018 - SEP 2019

Software Development Engineer (L4) - Amazon Advertising

- Designed and developed new microservices within AWS at a time when internal teams to Amazon were only just able to start deploying infrastructure into AWS.
- Developed deployment best practices for shipping products within AWS to internal customers.
- Developed a big data pipeline, a microservice backend API, and an internally available frontend to expose our machine learned data to internal employees, and to external customers through an integration with a customer facing product.

JUN 2017 - SEP 2017

Software Development Engineer Intern (L4) - Amazon Advertising

- Redesigned an application that processes big data to maintain customer anonymity between the retail and advertising businesses.
- Heavily worked with Spark and AWS, migrating a service from a soon to be deprecated production network to public AWS.
- Additionally created production data retrieval software for market price analysis and forecasting.
- Upped the capacity of the service from 70GB to any arbitrary size. End solution was tested with a 512GB input file, successfully completing in a quarter of the time required for a 70GB job with the old system for the same cost.

JUN 2016 - AUG 2016

Software Engineering Intern - E.ON Connecting Energies GmbH

- Worked within multiple teams to help develop different products in an Agile environment.
- Developed proof of concept software for a new product while working with business colleagues to develop the requirements.
- Additionally created production data retrieval software for market price analysis and forecasting.
- Quickly learnt the team's language of choice, Scala.

JUN 2015 - AUG 2015	Software Engineering Intern - E.ON Connecting Energies GmbH <ul style="list-style-type: none"> • Further developed a testing platform built the previous year. • Developed requirements for the improved testing platform that is still used today. • Built a web application endpoint to help provide visibility for key performance indicators. • Successfully patched production software to fix an issue under a tight deadline.
JUL 2014 - SEP 2014	Software Engineering Intern - E.ON Connecting Energies GmbH <ul style="list-style-type: none"> • Developed a configurable power plant simulation to act as a testing platform for production software. • Developed both a website and backend APIs to visualize the simulation, and allow for it to be integrated into the production system.

EDUCATION

SEP 2014 - JUN 2018	BSc Software Engineering - First Class with Honours - University of Glasgow <ul style="list-style-type: none"> • Built and led a team in the Glasgow University Cyber Defence Exercise (CDX) tournament that went on to win. • Performed as a penetration tester against 100 students in the following CDX year and built insecure operating systems to give to the students to fix. • On the University's Engineering Excellence list for two years while on the Electronic and Software Engineering course.
SEP 2012 - JUN 2014	International Baccalaureate - International School of Düsseldorf 36/45 Points - HL Maths (6), HL Physics (6), HL Music (5), SL English (6), SL Economics (6), SL German B (6), Extended Essay + Theory of Knowledge (1) <ul style="list-style-type: none"> • Worked with the school's IT department to improve network security and point out web application security risks. • Played within the school's Softball team and was a member of the school's Jazz Band.

VOLUNTEER WORK

JUN 2013	Project Tanzania - International School of Düsseldorf <ul style="list-style-type: none"> • Taught a class of 30 students Computer Science for 3 weeks in Tanzania. • Helped the students practice and develop their English skills as well as prepare for upcoming exams in other subjects.
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TECHNICAL SKILLS

Infrastructure	AWS - API Gateway, EMR, ECS, Cloud Formation, EC2, Cloudfront, VPC, Route 53, Glue, IAM, Lake Formation, Code Deploy, Cloud Watch, S3, KMS, Lambda, DynamoDB, App Config, Open Search, Secrets Manager, Step Functions, SQS, SNS, Cloud Search, Certificates Manager, X-Ray.
Programming Languages	Java (Expert), Typescript (Expert), Javascript (Advanced), Python (Intermediate), Scala (Intermediate), C++ (Advanced Beginner), C (Advanced Beginner), Rust (Advanced Beginner)
Operating Systems	Linux (Deployment & Development), MacOS (Development), Windows (Development)
Libraries & Frameworks	AWS CDK, Apache Spark, Apache Hadoop, Opensearch, Docker, React

LANGUAGES

ENGLISH: Native
GERMAN: Working Knowledge

HOBBIES & INTERESTS

NON-WORK: Hiking, Rock climbing, Running, Cooking, Gaming, Piano
WORK: Distributed systems, Service availability, Low latency systems, High scale, Infrastructure