

JAN SZCZEKULSKI

✉ email 🌐 website in linkedin 🐙 github

Experience

Amazon

June 2024 – Sept. 2023

Software Development Engineer Intern

Seattle, USA

- Designed and implemented a scalable AWS system (Lambda, AppConfig, ECS), approved by senior engineers, for fulfillment center orchestration, capable of cost-efficiently handling millions calls per day

Contextual Robotics Institute

September 2023 – Present

Graduate Research Assistant

San Diego, USA

- Developed a SOTA mobile robot tabletop re-arrangement algorithm; manuscript under review for publication

The Hut Group

Dec. 2021 – Aug. 2023

Full-Stack Software Engineer

Manchester, UK

- Led A/B testing widgets project, driving 25 effortless A/B tests and £70 million YoY revenue growth.
- Designed and implemented integration of widget-serving, A/B testing, and page-serving backends
- Extended internal frontends for seamless and user-friendly setup of widget-based experiments.
- Dockerized and Kubernetesized internal systems and data pipelines.
- Mentored several junior SDEs, accelerating their onboarding and integration into the team.

The Hut Group

Sept. 2020 – Dec. 2021

Data Scientist

Manchester, UK

- Automated A/B testing tasks, introduced integration testing, and set up CI/CD for multiple tools.
- Built data pipelines from scratch, integrating with Jenkins and GitHub Actions.
- Managed virtual machines, handling patching, setup, and integration with GitHub/Jenkins.

Education

UC San Diego

Sept. 2023 – Dec. 2024

Master of Science in Computer Science

San Diego, USA

University of Liverpool

Sept. 2017 – May 2020

BSc (honours) in Computer Science and Mathematics

Liverpool, UK

Selected Projects

Dropbox Replica | Go

May 2024

I developed a simplified Dropbox replica for synchronous file syncing between servers and a laptop, implementing RAFT from scratch and using gRPC for communication.

Monet-me-this web app | React, SpringBoot, Python, PyTorch, Linux

November 2022

Developed and deployed an AI-driven web app game where players distinguish between famous painters' works and images generated by CycleGAN AI.

AI application in medicine | React, SpringBoot, Python, PyTorch, Linux

November 2022

In collaboration with Lazarski University, used transfer learning, Google's Dermatology Embedding API, and CycleGAN to predict Port-Wine Stain treatment outcomes from pre-op photos. Orally presented the research at medical conferences in Phoenix and Baltimore

Technical Skills

Languages: Java, Go, SQL, GraphQL, TypeScript, HTML/CSS, Python, Shell

Frameworks: SpringBoot, Django, React, AngularJS, Pandas, Matplotlib, PyTorch

Technologies/Tools: Docker, Jenkins, Kubernetes, Github actions,

Publications

Journal Articles & Conference Proceedings

- Anna Mataczynska, Michal Paprocki, **Jan Szczekulski** and Bartlomiej Kwiek. *Laser Therapy of Cutis Marmorata Telangiectatica Congenita Vascular Malformation*. **Dermato**, volume 29 2023
- **Jan Szczekulski**, Michal Paprocki, Ryan Butler, Anna Mataczynska and Bartlomiej Kwiek. *Investigating the effectiveness of convolutional neural networks in predicting the efficacy rate of treating port-wine stain birthmark*. **Journal of Investigative Dermatology**, volume 143 2023
- Michal Paprocki, Anna Mataczynska, **Jan Szczekulski** and Bartlomiej Kwiek. *The effectiveness of cutis marmorata telangiectatica congenita laser therapy*. **Journal of Investigative Dermatology**, volume 143 2023
- Michal Paprocki, Anna Mataczynska, **Jan Szczekulski**, and Bartlomiej Kwiek. *Long term treatment of pws might require a new dual therapy consisting of induction and maintenance*. In 41st ASLMS Annual Conference on Energy Based Medicine& Science, in San Diego California, USA.

Relevant Coursework

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| <ul style="list-style-type: none">• Graduate Networks Systems• Object Oriented Programming• Intro to Programming• Advanced Computer Vision | <ul style="list-style-type: none">• Computer Vision I• Recommendation Systems• Data Mining and Visualisation• Statistics, Linear Algebra & Calculus courses |
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