Kacper Czekaj

PYTHON SOFTWARE ENGINEER · CLOUD DEVELOPER

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Experience

Revolut Ltd. Cracow, Poland

PYTHON SOFTWARE ENGINEER

2022 Apr. - current

- Develop and maintain cloud infrastructure using Terraform.
- Build and maintain: backend for web application responsible for discovering malicious trades, ETL framework for transaction reporting.
- Design and build reconciliation service with FastApi

TECH STACK

· Python 3.11, FastApi, Docker, Linux, OpenSSL, HashiCorp Vault, Celery, SQLAlchemy, Apache Airflow, PostgreSQL, Exasol, git, GCP

Capgemini Cracow, Poland

PYTHON CLOUD DEVELOPER

2021 Jun. - 2022 Apr.

- Lead dev of the cloud-native project, with active role in architecture design.
- Built and deployed overall service infrastructure utilizing Docker container, and AWS stack, focusing on authorization, and auto-scaling.
- Developed an easy-to-use web application, allowing users to connect via RDP or SSH with machines outside Capgemini network.

TECH STACK

- Python 3.10, Docker, Linux, OpenSSL, HashiCorp Vault, Apache Guacamole, git, BitBucket
- AWS: CLoudFormation, VPC, EC2, ECS, ECR, Route53, ELBv2, RDS, DynamoDB, CodePipeline, S3

Autodesk, Inc. Cracow, Poland

TEST ENGINEER 2020 Jun. - 2021 Jun.

- Developed and maintained regression test framework with REST API.
- Developed software for 3D object comparision in Python.
- · Orchestrated automatic test launcher with Jenkins pipeline, hosting the test results on s3 bucket as HTML pages.
- Pushed initiative to refactor old codebase and reduce tech debt to minimum, and as a result tests duration was reduced greatly.

TECH STACK

• In-house cloud computing platform, AWS S3, Python 3.7, C++17, Docker, Linux, OpenSSL, Allure, Behave, OpenCV, Jenkins, git

Woodward, Inc.

Niepołomice, Poland

 Test Engineer
 2019 Sep. - 2020 Jun.

- Developed Flask web application from scratch, with Bootstrap frontend and custom login solution based on LDAP and AD
- Developed programs in NI TestStand and Labview.
- Gethered data from physical test stands into PostgreSQL instance and processed it for display.
- Supported technicians with measurement hardware (oscilloscopes etc.)

PRODUCT MATERIAL COMPLIANCE INTERN 2018 Jul. - 2019 Sep.

- · Validated electronic components against environmental directives (RoHS, REACH, Conflict Minerals).
- Automated the validation process with VBA and Python scripts

PCO S.A. Warsaw, Poland

Trainee 2017 Aug. - 2017 Sep.

- Designed mechanical subassembly and development of technological process for mechanical parts included in the developed subassembly
 Development of program for CNC machines for the selected operation for developed subassembly, and selection of special equipment to
- · Received comprehensive introduction to noctovision, thermovision, and other optical technologies

Education

AGH University of Science and Technology

Kraków, Poland

B.Eng. in Material Science and Engineering

2013 - 2018

- Participated in various laboratory courses, including those focused on spectrometry and other measurement techniques. These courses
 provided students with valuable exposure to real-world applications and a comprehensive understanding of experimental methodologies.
- · Thesis on Methods and criteria for validation of the voltammetric procedure for determination of lead in animal wax.
- Used LTFX whenever possible

Skills_

DevOps & Cloud AWS, GCP, Docker, Kubernetes, Terraform, Jenkins

Back-end Flask, FastApi, gunicorn, REST API, celery, numpy, panda

Databases PostgreSQL, Exasol, SQLAlchemy, pyODBC, sqlite, redis, OracleDB

Programming Python, C++, C, TEX
Languages Polish, English

JUNE 27, 2024 KACPER CZEKAJ · CURRICULUM VITAE 1

Revolut Ltd. Cracow, Poland

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Extracurricular Activity

B10S (B1t 0n the Security, Underground hacker team)

S.Korea

Nov 2011 - PRESENT

- · Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

S.Korea

MEMBER

CORE MEMBER

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and settop box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

Member Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

 IEMBER
 Sep. 2013 - Jun. 2017

- · Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- · Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

Honors & Awards

INTERNATIONAL AWARDS

2021	2nd Place , AWS ASEAN AI/ML GameDay	Online
2020	Finalist, DEFCON 28th CTF Hacking Competition World Final	Las Vegas, U.S.A
2018	Finalist, DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	Finalist, DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	Finalist, DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	Finalist, DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	Finalist, DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A
2012	6th Place , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

DOMESTIC AWARDS

2021	2nd Place , AWS Korea GameDay	Seoul, S.Korea
2015	3rd Place , WITHCON Hacking Competition Final	Seoul, S.Korea
2017	Silver Prize, KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	Silver Prize, KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	2nd Award, HUST Hacking Festival	S.Korea
2010	3rd Award , HUST Hacking Festival	S.Korea
2012	3rd Award , Holyshield 3rd Hacking Festival	S.Korea
2011	2nd Award, Holyshield 3rd Hacking Festival	S.Korea
2011	5th Place , PADOCON Hacking Competition Final	Seoul, S.Korea

COMMUNITY

2022	AWS Community Builde	r (Container) , Amazon Web Services (A	۱WS)

2022 **HashiCorp Ambassador**, HashiCorp

Certificates

2023	AWS Certified Developer - Associate, Amazon Web Services (AWS)
2023	AWS Certified Cloud Practitioner, Amazon Web Services (AWS)
2022	AWS Certified Security - Specialty, Amazon Web Services (AWS)
2022	AWS Certified Solutions Architect - Professional, Amazon Web Services (AWS)
2019	AWS Certified Solutions Architect – Associate, Amazon Web Services (AWS)
2021	AWS Certified SysOps Administrator – Associate , Amazon Web Services (AWS)
2020	Certified Kubernetes Application Developer (CKAD), The Linux Foundation
2023	HashiCorp Certified: Consul Associate (002), HashiCorp
2023	HashiCorp Certified: Terraform Associate (003), HashiCorp
2020	HashiCorp Certified: Terraform Associate (002), HashiCorp

AWS Certified Advanced Networking - Specialty, Amazon Web Services (AWS)

Presentation

DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

Nov. 2017

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

· Introduced the history of web technology and the JAM stack which is for the modern web application development.

· Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

Presenter for <DEFCON 20TH: The way to go to Las Vegas>

Jul. 2012

• Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea S.Korea

Presenter for <Metasploit 101>

Sep. 2012 • Introduced basic procedure for penetration testing and how to use Metasploit

Writing

AhnLab

A Guide for Developers in Start-up

Facebook Page Jan. 2015 - PRESENT

FOUNDER & WRITER

• Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Undergraduate Student Reporter

S.Korea Oct. 2012 - Jul. 2013

• Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

2016	Problem Writer, 2016 CODEGATE Hacking Competition World Final	S.Korea
2013	Organizer & Co-director, 1st POSTECH Hackathon	S.Korea
2012	Staff, 7th Hacking Camp	S.Korea
2012	Problem Writer, 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	Staff & Problem Writer, JFF(Just for Fun) Hacking Competition	S.Korea

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JUNE 27, 2024