

ABNER MATHEUS COSTA DE ARAUJO

abner.math.c@gmail.com ✉

[linkedin.com/in/abner-math](https://www.linkedin.com/in/abner-math)

+49 151 10798613 ☎

[abner-math.github.io](https://github.com/abner-math)

Skills

C++ Java Python C# Azure Spark JavaScript SQL Docker Shell

Experience

Google

Software Engineer - Full-Time

- ❑ Develop internal tools to increase the productivity of the teams responsible for providing Google Accounts, improving their test infrastructure and reliability of their services.
- ❑ **Tech:** C++, Python, Java

Jun 2022

current

Munich
Germany

Microsoft

Software Engineer - Full-Time

- ❑ Built a compliant and reliable compute layer for an internal machine learning platform used by M365 teams, managing over 500 clusters in Azure and implementing operations such as provisioning and monitoring of the clusters' health.
- ❑ **Tech:** C#, Azure, Spark, Power BI, Shell, Git

Nov 2020

Apr 2022

Remote
Brazil

Adroit Robotics

Software Engineer - Full-Time

- ❑ Joined an early-stage startup in the agro sector to estimate the yield and health of orange orchards through images, where I improved the overall performance and accuracy of the components and created new algorithms for GPS data clustering robust to noise.
- ❑ **Tech:** Python, PyTorch, OpenCV, Docker, Shell, Git

Mar 2020

Oct 2020

São Paulo
Brazil

SAP

Software Engineer - Full-Time

- ❑ Participated in the development of SAP Data Intelligence, a cloud platform for data management and machine learning, where I created connectivity with many structured and semi-structured data sources and exposed them through a REST API.
- ❑ **Tech:** Java, SQL, Docker, Kubernetes, Shell, Git

Jun 2018

Feb 2020

Porto Alegre
Brazil

Education

M.S. Computer Science

Federal University of Rio Grande do Sul (UFRGS)

- ❑ Developed new algorithms for pattern recognition in point clouds

Mar 2017

Jul 2019

B.S. Computer Science

Federal University of Campina Grande (UFCG)

- ❑ Participated in undergrad research projects in computer vision

Aug 2012

Apr 2017

Publications

- ❑ Abner M. Araujo, Manuel M. Oliveira, "[A Robust Statistics Approach for Plane Detection in Unorganized Point Clouds](#)", **Pattern Recognition**, 2020.
- ❑ Abner. M. Araujo, Manuel M. Oliveira. "[Connectivity-based Cylinder Detection in Unorganized Point Clouds](#)", **Pattern Recognition**, 2020.

Awards

- ❑ Masters thesis selected in the 2019 Brazilian Computing Society's Masters Thesis Contest (Top 10)

Nov 2020

Projects

Heroica

- ❑ A mobile app to organize tasks, goals, and promote new habits. I have applied gamification concepts into task management, similar to [Habitica](#), but more focused on long-term planning.
- ❑ **Tech:** TypeScript, React Native, Node.JS

Mar 2022

current

ARBigData

Jan 2015
Dec 2016

- Undergrad research project sponsored by Hewlett-Packard (HP) to develop new techniques for recognition, indexing, and retrieval of images and 3D objects using computer vision and machine learning.
 - Tech:** C++, Caffe, Hadoop Map-Reduce, OpenCV
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Languages

- Portuguese: native speaker
 - English: fluent
 - German: basic
 - Spanish: intermediary
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