BENJAMIN MACCINI

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I am an Austin-based developer with experience in early-stage product development, algorithms, and machine learning. I enjoy working with small teams on complex technical problems, particularly those with a focus in math. Above all, I seek to grow with my team through meaningful personal relationships and exploration of new technologies and processes.

EXPERIENCE

Pensa Systems, Software Engineer   Jun 2019 – Jun 2020
- Led design and execution of cross-team projects including:
  ◦ Diagnostic tooling for runtime localization services utilizing the REST protocol
  ◦ Cloud-based microservices for video preprocessing
- Evaluation and QA of deep learning models for information retrieval and object categorization.
- Development and maintenance of supporting infrastructure for various steps of the machine learning life-cycle (e.g. hyperparameter tuning and data collection)
- Ported over proprietary localization algorithms for the purposes of stability and maintainability, effectively eliminating runtime failure.

Pensa Systems, Intern/Contractor   Feb 2018 – Jun 2019
- Led independent contractor coordination, internationally, namely for the purpose of data collection and labelling
- Engaged in field operations for experimental trials
- Responsible for evaluating model accuracy measures

EDUCATION

University of Texas at Austin
- B.S. in Mathematics (College of Natural Sciences)
- Minor in Business (McCombs School of Business)
- Elements of Computer Science Certificate (College of Natrual Sciences)

Relevant Coursework/ Independent Pursuits

Applied number theory, applied linear algebra, data analytics, one-shot learning

SKILLS

General Software Methodologies/Patterns
- REST
- Test Driven Development
- AGILE Methodologies
- Git
- Remote/asynchronous development
- Team coordination tools (Google Services, Kanban, Slack)

Cloud
- AWS (Lambda, ECS, SQS, S3, Cloudwatch)
- Docker
- Continuous Integration (CircleCI)
- Microservice architecture
- Terraform

Languages/ Packages

Language	Proficiency	Packages / Related Software
Python	Fluent	asyncio, flask, numpy, opencv, pandas, scipy, tensorflow
SQL	Fluent	SQLAlchemy, PostgresQL
Bash / Unix	Working Knowledge	awk, curl, docker, git, make, screen, ssh, vim
Go	Working Knowledge	gin, gonum, Hugo, math, net/http