BENJAMIN MACCINI

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Developer with focuses in early-stage product development, algorithms, devops, and information security.

EXPERIENCE

Pensa Systems, Algorithm Engineer **Jun 2019 – Jun 2020**

- Led design and execution of cross-team projects examples being;
  - Diagnostic tooling for runtime services utilizing the REST protocol
  - Cloud-based microservices for image preprocessing
- Evaluation and QA of deep learning models
- Development and maintenance of supporting infrastructure for various steps of the machine learning life-cycle
- Modernization and optimization of proprietary localization algorithms

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

JRS International, Window Cleaner **Mar 2017 – Dec 2017**

Contract work specializing in high-rise window cleaning services

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, scientific computation in numerical analysis, elliptic curve cryptography, stochastic analysis, elements of statistical learning, one-shot learning

SKILLS

Languages // Packages

- Python
  - Packages: Flask, SQLAlchemy, numpy, scipy, opencv, pandas, tensorflow, boto3
- Go
  - Packages: Viper, Hugo (static site generator), gin, go-centrifuge, gonum

General Software Methodologies/Patterns/Tools

- REST
- Asynchronous programming
- Microservice architecture
- Cloud native applications (AWS: Lambda, ECS, SQS, S3, Cloudwatch)
- Test Driven Development
- Readable Code
- Continuous Integration (CircleCI)
- DevOps (terraform)
- “AGILE” Methodologies
- Git
- Unix development
- Team coordination tools (Google Services, Kanban, Slack)