

# Benjamin Maccini

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## WORK EXPERIENCE

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**Market Lead** Aug 2024 — Present  
Sustainable Food Center *Austin, TX*

- Primary point of contact for day-of operations at the market including vendor relationship management, coordinating staff and subbing for Double Up associates as needed.

**Founding Engineer** Nov 2021 — Dec 2023  
unPLUG Dining *Chicago, IL*

- Served as the primary contact for developer relations for our integration partners.
- Managed the onboarding and coordination of new integrations spanning from cloud payments to loyalty platforms.
- Helped grow engineering team headcount to 12+, brought on numerous advisors and specialists.
- Established our engineering process and culture from both an operational perspective and a technical one through the usage of CI/CD pipelines, Agile practices, and document-driven design.
- Wrote well-tested, client-agnostic, RESTful platform APIs utilizing modern Python which have processed 10s of millions in payments.
- Implemented recommender algorithms with customer-defined business rules and managed inference generation.

**Software Engineer** Jun 2019 — Jun 2020  
Pensa Systems *Austin, TX*

- Created diagnostic tooling for runtime object localization services
- Productionized research-oriented Python code, effectively eliminating runtime failure
- Evaluated and ran QA for few-shot classification and Deep Cauchy Hashing models for CPG classification
- Implemented a custom 3D scene reconstruction algorithm based on SLAM and deep learning artifacts

**Contractor** Feb 2018 — Jun 2019  
Pensa Systems *Austin, TX*

## EDUCATION

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**University of Texas** Austin, TX  
*Bachelor's of Science, Mathematics; Minor, Business* Aug 2015 — May 2019

## PROJECTS

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**Maintainer**, go-vote ([git.sr.ht/~bmaccini/go-vote](https://git.sr.ht/~bmaccini/go-vote)) May 2020 — Present

- This is a software library that implements alternative electoral systems such as ranked choice

**Auditor**, US-Mexico Salinity Plans ([github.com/benjaminmaccini/pa325](https://github.com/benjaminmaccini/pa325)) Aug 2024 — Present

- A binational collaboration between UDLAP Puebla, Mexico and UT Austin, United States that aims at providing a set of policy recommendations for the 1944 Treaty addressing rising salinity levels in the Lower Rio Grande River. This library contains statistical analysis function for sparse events as well as functions for hydrologic regression analysis.

**Maintainer**, zkalman ([github.com/benjaminmaccini/zkalman](https://github.com/benjaminmaccini/zkalman)) Mar 2024 — Present

- A simple Kalman filter written in Zig. Features a low-level matrix library with compile-time dimension checks and SIMD accelerated instructions. Used for personal momentum trading strategies.

## SKILLS

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- Programming Languages: Python, Go, SQL, HCL, Nix, Elixir
- Services: AWS, CircleCI, Github, Terraform Cloud, PostgreSQL
- Domain Knowledge: Online ordering systems, payments, loyalty platforms, data labeling services, retail inventory systems
- Interests: Travel, climbing, running, cooking