

# Dennies Bor

GitHub: [github.com/denniesbor](https://github.com/denniesbor)

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Scholar: [Google Scholar](#)

## PROFESSIONAL SUMMARY

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Software engineer with a scientific-computing background, building and deploying full-stack applications, dashboards, and reproducible research tooling. Experienced with cloud deployment, CI/CD automation, containerization, and Linux-based operations for reliable delivery of data products.

## SKILLS SUMMARY

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- **Frontend:** React, modern SPA workflows, dashboard UI/UX, visualization-driven interfaces.
- **Backend & APIs:** REST patterns, data-serving endpoints, automation scripts and pipeline tooling.
- **Cloud & DevOps:** AWS, Docker, Nginx, systemd, GitHub Actions (CI/CD), Linux administration.
- **Data Products:** Reproducible data pipelines, batch processing, packaging research artifacts for delivery.
- **Engineering Practices:** Git workflows, structured repos, documentation-first shipping, release automation.

## EDUCATION

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- **George Mason University** Fairfax, VA, USA  
*PhD in Earth Systems and Geoinformation Sciences (Advisor: Dr. Edward Oughton)* Sep 2023 – Present  
  
**Selected Coursework:** Web-based GIS; GIS Algorithms/Programming; Spatial Computing; Earth Sci Data / Advanced Data Analysis; Quantitative Methods.  
**GPA:** 3.85
- **Technical University of Kenya** Nairobi, Kenya  
*BEng in Aeronautical Engineering (First Class Honors)* Sep 2013 – May 2019

## EXPERIENCE

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- **Graduate Research Assistant** George Mason University, VA, USA  
*Research Software, Dashboards, Deployment Automation* May 2022 – Present
  - Developed interactive web-based GIS and research dashboards for infrastructure resilience and risk analysis.
  - Built deployment-ready research artifacts (data pipelines + UI) and maintained reproducible workflows for sharing results.
  - Automated build/release pipelines using GitHub Actions; containerized components where appropriate.
- **Engineering Intern** Broglie Space Center, Malindi, Kenya  
*Satellite Operations, Remote Sensing* Aug 2018 – Nov 2018
  - Supported satellite tracking and telemetry for geospatial applications.
  - Assisted in the maintenance and operation of RF communication systems.

## PROJECTS & PROPOSALS

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- **Portfolio Platform and Research Dashboards** ([denniesbor.github.io](https://denniesbor.github.io)): [GitHub](#) — [Live](#)
- **Reproducible Grid Mapping Dashboard** ([spw-geophy-io](#)): [Preprint](#) — [GitHub](#) — [Dashboard](#)
- **Coupled Space Weather Impact Model (C-SWIM)**: [Preprint](#) — [GitHub](#) — [Dashboard](#)
- **Ops Automation Utilities** ([linux\\_sys\\_admin\\_scripts](#)): [GitHub](#)
- **Computer Vision for Power Substation Asset Detection** ([substation-assets-identification](#)): [GitHub](#)

## PROFESSIONAL AFFILIATIONS

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- **National Center for Atmospheric Research** USA  
*Early Career Faculty Innovators Program* 2023 – 2025
- **African Institute of Mathematical Sciences** South Africa  
*Africa Data Science Intensive Program* 2022

## REFERENCES

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Available upon request.