CASEY AGUILAR-GERVASE

PRINCIPAL SHINY DEVELOPER

CONTACT

97caguilar@gmail.com

Indianapolis, IN

EDUCATION

AMERICAN UNIVERSITY

Biostatistics MS
Applied Statistics BS
Graphic Design Minor

2015-2019

AMERICAN UNIVERSITY

Division I Women's Lacrosse
Team Captain 2017-2018 season

2015-2019

TECHNICAL SKILLS

UI/UX Design

Wireframe Creation

Shiny App Development

bslib

HTMLWidgets

CSS/HTML

D3

golem framework

R6 classes

CDISC

Python basics

ABOUT ME

I specialize in merging design thinking, technical expertise, and clinical domain knowledge to create tools that users genuinely want to use. I believe data deserves better than dashboards that feel like chores. Through thoughtful architecture and creative engineering, I help teams unlock the full potential of their information — clearly, intuitively, and beautifully.

EXPERIENCE

PRINCIPAL SHINY DEVELOPER

Atorus Research

2026 - Present

- Lead multiple projects, transcend organizational boundaries, and collaborate with leadership to influence business and engineering direction
- ·Utilize expert-level skills to turn business needs into code architecture, create viable project timelines, and develop new methodologies and tools
- ·Meet with clients regularly, delegate tasks to the team, communicate complex issues effectively, and mentor junior developers
- Take responsibility for project outcomes, ensure client satisfaction, and lead multiple development efforts while managing timelines and deliverables
- Drive innovation in programming methodologies

SENIOR SHINY DEVELOPER

Atorus Research

2023 - 2026

- Lead end-to-end wireframing and UI/UX design for Shiny applications, translating complex data requirements into intuitive, visually polished interfaces
- Drive project planning and execution by translating ambiguous requirements into clear milestones, managing timelines across concurrent workstreams, and coordinating cross-functional teams

EXPERIENCE (CONTINUED)

- Lead multi-developer projects, breaking down complex tasks into actionable deliverables and ensuring alignment across development efforts
- Proactively solve complex technical challenges by designing scalable solutions and recommending improvements to workflows and methodologies
- Communicate technical concepts clearly to clients and internal teams; deliver demos, support stakeholder engagements, and adapt solutions based on evolving business needs
- Independently manage projects while mentoring junior developers and supporting team growth
- Develop advanced Shiny applications using modular architecture, dynamic user interfaces, and scalable design patterns
- Apply advanced R programming concepts (R6, functional programming, environment management) to support robust and maintainable applications
- Maintain expertise in Git workflows, including branching strategies, code reviews, and collaborative version control best practices

DATA VISUALIZATION ENGINEER/DATA SCIENTIST

Atorus Research

2022-2023

- Conducted user research and translated findings into wireframes, prototypes, style guides, and user flows to optimize UI/UX design.
- Presented and defended design decisions based on design principles (e.g., color theory, visual hierarchy, user psychology).
- Supported multiple simultaneous data visualization projects, balancing design innovation with technical feasibility.
- Developed technical specifications and maintained software documentation for internal products.
- Managed codebases using Git and implemented continuous integration best practices to ensure streamlined development workflows.
- Actively participated in agile teams and client-facing project leadership, ensuring alignment with evolving industry standards.

ASSOCIATE, PROGRAMMING & BIOSTATISTICS

Nuventra Pharma Sciences

2021-2022

- Programmed data manipulation, analysis, and visualization workflows in R and SAS for pharmacokinetic (PK), pharmacodynamic (PD), and PK/PD studies.
- Developed CDISC-compliant outputs, including formatted datasets, tables, listings, and figures for clinical pharmacology reports.
- Collaborated closely with pharmacokineticists and scientific leads to design, validate, and deliver analysis deliverables.
- Facilitated data transfers, resolved data queries, and documented outcomes through direct client communication.

EXPERIENCE (CONTINUED)

- Supported the preparation and statistical analysis of clinical trial data in alignment with statistical analysis plans.
- Contributed to the creation of best practices, SOPs, and internal programming standards to enhance quality and efficiency.
- Maintained ongoing development in R programming, biostatistics tools, and regulatory compliance training.

SPECIALIST, PROGRAMMING

Nuventra Pharma Sciences

2020-2021

- Provide coding support (primarily In R) to Pharmacokineticists conducting PK, PD, Toxicokinetic, Population PK analyses, etc. related to drug development.
- Support clinical pharmacology experts In the design and Interpretation of Phase 1 clinical studies In healthy volunteers or special populations.
- Assist with designing programming code to generate summary PK and PD tables, listings, and graphs from clinical and nonclinical data.
- Assist with the development of code to clean and summarize data from nonclinical and clinical studies, Including Implementation of CDISC (SDTM, ADam, and SEND) standards.