Prajal Bishwakarma

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EXPERIENCE

- **Allen Institute for Brain Science (AIBS)** — Seattle, WA
  Scientific Data Engineer III — *January 2022 - Current*
  - Built ingest pipeline for -omics and spatial transcriptomics datasets into Allen Brain Cell Atlas
  - Built ingest pipeline for semi-automated release of raw -omics data from BRAIN Initiative Cell Atlas Network (BICAN) R24 data archive and the Neuroanatomy-anchored Information Management Platform (NIMP)
  - Built integrations with services resolving gene annotations, anatomical atlases, and cell type annotations
  - Facilitated FAIR data practices by implementing metadata validation models and standards for -omics datasets in BICAN consortium
  - Built community project/data collection registration application for BRAIN Cell Data Center (BCDC)
  - Curated data for BCDC Data Catalog

- **Ernst & Young** — Arlington, VA
  Senior Software Engineer — *December 2019 – February 2021*
  Client: Large Pharmaceutical Firm
  - Led team of four developers in Identity and Access Management (IAM) system design and implementation
  - Drafted qualification documentation for system implementation and deployment
  - Managed project timeline and engineering backlog using Kanban strategy on Microsoft Azure DevOps

  Client: Large Manufacturing Firm
  - Co-authored assessment of client IAM practices regarding existing Amazon Web Services (AWS) infrastructure
  - Developed prototype integration between AWS IAM and existing client IAM system
  - Demonstrated prototype functionality both to internal and client leadership

  Internal: Internship Project
  - Architected and built front-end infrastructure for IAM system performance dashboard
  - Led code reviews and mentored interns in engineering practices

- **Sila Solutions Group (Acquired by Ernst & Young)** — Arlington, VA
  Software Engineer — *July 2018 - December 2019*
  Client: Financial Services Firm
  - Led team of six developers/analysts in IAM feature implementation
  - Presented project progress at weekly status meetings with client leadership
  - Mentored three new developers in engineering practices
  - Led largescale upgrade of legacy system
  - Wrote and executed full regression testing suite for legacy system

- **Booz Allen Hamilton** — Tyson's Corner, VA
  Software Engineering Consultant — *September 2017 - July 2018*
  - Built RESTful API around search application using Flask and ElasticSearch
  - Designed data model and implemented ORM for chat application using PostgreSQL and SQLAlchemy
  - Wrote unit/integration tests for previously untested modules
  - Implemented unsupervised, corpus agnostic named entity recognition algorithm
  - Deployed containerized prototypes on AWS EC2 instances using nginx and Docker

- **College of William & Mary** — Williamsburg, VA
  Undergraduate Research Assistant — *September 2015 - May 2017*
  - Built integrate-and-fire model of CA3 subregion supported by NSF funded EXTREEMS-QED program
  - Built signal processing pipeline for time series data sets using Python and MATLAB
  - Created data visualizations of model behavior in R
  - Wrote and successfully defended Undergraduate Honors Thesis

EDUCATION

- **College of William & Mary**   Williamsburg, VA
  B.S. Neuroscience, Minor: Computer Science   *August 2009 – May 2017*

PROJECTS

- **groupbool.xyz**: Static music discovery and analytics blog. Built with GCP functions that aggregate Spotify data.

SKILLS

- **Languages:** Python, Java, MATLAB, R, HTML/CSS
- **DevOps:** AWS EC2/RDS/S3/Lambda, Azure DevOps, Google Cloud Platform