

# Bennett Garcia

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Full-stack software engineer with mathematics background and extensive ML knowledge

## WORK EXPERIENCE

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### Oracle Cloud Infrastructure

Remote / Redwood Shores, CA

*Software Engineer - Source Control Management Team (SCM)*

*August 2023 – Present*

- Developing Oracle's new source control management system built in Java on JGit and OCI.
- Leading migration of 10,000+ Oracle repositories from existing Git platforms to OCI's new SCM system, seamlessly transitioning hundreds of teams and thousands of developers.
- Building a distributed system to migrate tens of thousands of Git repositories daily.
- Implementing backend features and internal APIs to support the user's migration experience.
- Rotate on-call: analyze service metrics, mitigate service issues, and improve on-call tooling.

*Software Engineer Intern - Compute Team (Backend)*

*May 2022 - August 2022*

- Developed a Python-based system to monitor virtual machine usage by aggregating data from multiple telemetry APIs for efficiency analysis.

*Software Engineer Intern - Console Team (Frontend)*

*May 2021 - August 2021*

- Built React.js components to display QR codes and information for the OCI mobile app.
- Extended event-based data-tracking to support more robust AB-Testing.

### Rutgers Rail and Transport Lab

Rutgers University

*Software Engineer - Lead Undergraduate Developer*

*September 2021 – November 2022*

- Led a team of 12 developers to build an application for lab workers validating YOLO object detection outputs, processing 100,000+ railway detection events for anomaly identification and video validation.
- Implemented a Python-based multi-processing workflow manager for an ensemble of computer vision models, labeling anomalies from YOLO outputs.
- Mentored undergraduate developers on OpenCV, Scikit, and PyTorch.
- Dockerized and deployed backend/frontend services and managed PostgreSQL on AWS.
- Built a user interface with React and Node.js to manage model workflows and streamline manual video data validation.

### The Coder School

Short Hills, NJ

*Programming Teacher*

*December 2019 – January 2021*

- Taught coding classes of 1-10 students, from ages 7-17, using Scratch, Python, Java, and more.

### George Street Co-op

New Brunswick, NJ

*Director and Committee Chair*

*September 2021 – August 2023*

- Appointed to the Board of a 50+ year-old grocery co-op serving a NJEDA-designated food desert.
- Rewrote bylaws to enhance democratic governance and managed an electronic voting system.

## EDUCATION

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Rutgers University

New Brunswick, NJ

Computer Science, B.S. & Mathematics, B.S.

August 2023

- **Total GPA: 3.6/4.0, CS GPA: 3.9/4.0** *Awarded position in Professor Imielinski's Data [Hall of Fame](#)*
- **1st place, HackRU** Implemented N.E.A.T algorithm in Java to train neural networks using evolutionary techniques. Selected to mentor subsequent Hackathons teams.
- **Sample Coursework:** Algorithm Design & Analysis, Database Technology, Computer Architecture, Computer Security, Proof-Based Linear Algebra, Probability Theory, Machine Learning, Differential Geometry, Model Theory & Mathematical Logic

## SKILLS & INTERESTS

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- **Programming Languages & Tools:** Java, Python, C, JavaScript, SQL, Git, Unix, LaTeX
- **Full-Stack Development:** Node.js, React, Docker, Postgres, AWS, OCI
- **Data Science/ML:** Scikit-learn, NumPy, PyTorch, JAX, OpenCV, Matplotlib
- **Interests** Mathematics, Active Inference & Bayesian Mechanics, Traveling, Rock Climbing, Cooking, Video Games