

Tate Bradley

(704) 555-0178 tate.bradley@example.com
linkedin.com/in/tate-bradley Charlotte, NC 28202

SUMMARY

Enthusiastic water resources engineer eager to contribute to Innovative Solutions Corp’s mission of improving global water management. With a background in Environmental Engineering, experience focuses on hydrologic modeling and data-driven decision support. Collaborated with multidisciplinary teams to implement forecasting systems using Delft-FEWS. Skills include developing Python scripts for speedier data processing workflows along with thorough documentation of methods. Passionate about sustainable water management practices, consistently striving for technical excellence that supports informed agency decisions and enhances environmental stewardship.

EDUCATION

Bachelor of Science in Environmental Engineering
University of North Carolina at Chapel Hill GPA: 3.6
Coursework: Hydrology, Fluid Mechanics, Water Quality Management, Environmental Ethics

2026
Chapel Hill, NC

TECHNICAL SKILLS

- Programming Languages:** Python, R, MATLAB, SQL
- Modeling Tools:** Delft-FEWS, SWAT, HEC-RAS
- Data Analysis Software:** Excel, ArcGIS, Tableau
- Documentation Tools:** Microsoft Office, LaTeX, Confluence
- Visualization Tools:** Tableau, MATLAB, GTiff
- Statistical Analysis:** SPSS, RStudio, MiniTab
- Hydrological Frameworks:** ModFlow, GMS, HYDRUS
- Project Management:** Trello, Asana, JIRA
- Simulation Tools:** CPN, SIMUL8, AnyLogic
- Collaborative Platforms:** Slack, MS Teams, Google Workspace

SKILLS

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|---------------------|-------------------------|----------------------|--------------------------|
| Hydrologic Modeling | MATLAB | Team Collaboration | Forecasting Systems |
| Data Analysis | SQL | Problem Solving | Data Processing |
| Python | Technical Documentation | Quality Control | Hydrometeorological Data |
| R | Communication Skills | Delft-FEWS Framework | Model Calibration |

EXPERIENCE

Water Resources Engineering Intern
University Research Lab

June 2025 – August 2026
Chapel Hill, NC

Supported various river forecasting projects through development of critical hydrologic models. Involved throughout entire project lifecycle including testing and maintenance of integrated data workflows. Engaged with team members to drive project results while ensuring clear communication of findings to all stakeholders.

- Assisted in model development for river forecasting systems focusing on operational effectiveness.
- Integrated hydrometeorological data processing workflows enhancing overall quality control measures.
- Collaborated with researchers and engineers to document findings, creating actionable insights.
- Developed Python scripts automating processes reducing overall data handling time by one-third.
- Analyzed streamflow and precipitation data, significantly contributing to comprehensive project reports.
- Participated actively in meetings fostering collaboration among diverse team skill sets.

Hydrology Modeling Capstone Project
Academic Research Project

September 2024 – May 2025
Chapel Hill, NC

Led an innovative capstone team culminating in creation of a robust hydrologic model targeting watershed management strategies. Managed project's progress focusing on practical implementation of theoretical knowledge alongside peer presentations.

- Spearheaded development of MATLAB-based hydrologic model programming effective simulation outcomes.
- Evaluated model calibration process verifying functionality against gathered observational data.
- Devised visualization tools summarizing findings easily understood by non-technical stakeholders.
- Conducted comprehensive research analyzing water resource practices informing project recommendations.

- Presented transformative project outcomes at annual conference gathering positive audience response.
- Collaborated intensely with faculty supervisors refining modeling techniques achieving superior results.

LEADERSHIP & AWARDS

- Dean's List – University of North Carolina at Chapel Hill, 2024, 2025
- First Place, University Hackathon – 2025

CERTIFICATIONS

- Python for Data Science Certification 📅 2025
- Introduction to Hydrology 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Water Resources Club – University of North Carolina at Chapel Hill
- Volunteer, Local Environmental Cleanup Initiatives

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST