Adam Becklehimer

Software Engineer / Computer Scientist

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Employment Experience

Intern – Cray Research, Oak Ridge National Laboratory   Summer '15, '16, '17

- Assisted in field maintenance and hardware replacement of the Titan supercomputer
- Monitoring of supercomputer physical environment data
- Developed inventory management system with mobile interface
- Mapped component failures with intuitive graphical display
- Created an automated program to log supercomputer temperature settings
- All developed software remained in use by company after end of internship

Research Assistant – Tennessee Technological University   November 2019 – April 2020

- Research in supervised learning through Mechanical Engineering department
- Stochastic signal classification using traditional machine learning algorithms
- Time warping techniques for inconsistent sample rate
- Research into convolutional neural network to classify graphs and other visual representations of data
- Software development to create executable product

Education

Tennessee Technological University – Cookeville, TN   May 2020

- Bachelor of Science in Computer Science (Data Science Concentration)
- Coursework: Data Mining / Machine Learning, Data Science, Parallel Programming / HPC, Distributed & Cloud Computing, iOS Development, Computer Networks, Operating Systems, Software Engineering

Projects

Mobile Development

- Designed an iOS 'snake'-like game using onboard gyroscopic sensors
- Developed an iOS mobile inventory system for internship

Skills

- **Programming Languages:** Bash, Python, C++, R, Objective C, Assembly x86, SQL, Java, Perl
- **Operating Systems:** Linux, Mac OSX, iOS, Windows, Android
- **Applications:** Git, xCode, VIM, Jupyter, Digital Audio Workstation (DAW)

Activities

- Freelance live and session musician
- Outdoor recreation enthusiast
- Raspberry Pi and IoT programming / DIY smart home
- PC gaming