Ethan Barnes

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EDUCATION

Bachelor of Science in Computer Science   May 2018
New Media Institute Certificate
University of Georgia - Athens, GA

TECHNICAL EXPERIENCE

Platforms/Tools: Linux/Unix, Windows, MacOS, Android, iOS, Xcode, ROS

Programming Languages: C/C++, Java, Python, CUDA, Swift, HTML, CSS, Javascript, Ruby, SQL

Major Courses: Software Development, Systems Programming, Theory of Computing, Web Programming, Computer Networks, Probabilistic Robotics, Database Management, and Cyber Security

Personal Projects: Low Poly Watchface for Pebble Time, Trend Dungeon, Raspberry Pi Homescreen

PROFESSIONAL EXPERIENCE

Electronics Team Lead   February 2017-Present
UGA Small Satellite Research Laboratory   Athens, GA
- Lead a team of 6 software and electrical engineers to perform research and implementations for review by NASA and the Air Force Research Laboratory
- Design and develop satellite software architectures for deployment, scan, data downlink, and data processing
- Design and perform electrical and software system tests on satellite hardware
- Program functions and modes for the Spectral Ocean Color (SPOC) satellite mission for NASA's second iteration of the Undergraduate Student Instrument Project (USIP)
- Perform research in compression and encryption methods for the Multi-view Computational Onboard Imager (MOCI) mission for the Air Force Research Laboratory's ninth iteration of the University Nanosatellite Program (UNP)

Software Devleoper   January 2018-Present
Computational Drug Discovery Lab   Athens, GA
- Develop edge finding algorithms for prediction of protien binding sites based on complex data sets using CUDA
- Create new computational drug discovery methods and improving exsisting methodologies
- Build models to simulate biological systems

Technician   June 2016-January 2018
Total Technology Solutions   Athens, GA
- Contract IT work to local medical businesses in the Athens location
- Responsible for various networking and computer help - such as troubleshooting and repairing networks, managing servers, and setting up new workstations for doctors

ACTIVITIES

Center for Undergraduate Research Opprotunities (CURO) Assistantship Recipient
- Compression and Encryption Methods for Small Satellite Communication

Freelance Web Developer
- Oconee County Farmers Market
- Crescent Hill Farms

University of Georgia Chapter of the Association for Computing Machinery (ACM)
- iOS Development Team
- UGA Hackathon