

Blake Regalia
GIS Expert & Software Engineer
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Blake Regalia is an extremely talented and multi-dimensional software engineer with a passionate expertise in the field of Geographic Information Systems (GIS). He studied computer science and geography at University of California Santa Barbara where he worked closely with renown GIS professors on several research projects; UCSB is internationally recognized as having one of the best Geography departments in the world.

RECENT PROJECTS

- **UCSB Interactive Campus Map** - Designed and implemented an ArcGIS interactive map bundled with a suite of software components that serve as an online interactive campus map service for the University. Front end is an HTML5 web application running off of the ArcGIS JavaScript API. The server-side implementation is running ArcGIS Server and was programmed to be an autonomous “data monster” which scrapes several different server feeds to keep its own database updated.
- **Distributed Wireless Access Point Tracer** - Spearheaded a research project endorsed by several researcher professors and research students at UCSB Geography to build a mobile device surveying application that maps a complex environment using device sensors and server-side algorithms. The devices relay information to the centralized GIS servers where the lengthy calculations are performed on large datasets to interpolate midpoint values and update prediction models. The purpose of the project was to map out and interpolate several dynamic continuous fields that permeate campus such as WiFi signals, air temperature, light exposure, humidity, GPS signal distortion, and 3D planar surfaces.
- **Official UCSB Online College Course Pilot for Geography 12** - An interactive web application delivers lecture content, administers quizzes, and provides an organized, engaging environment for learning. Students are able to: view lecture slides assisted by voice-over, watch YouTube videos prepared by course content managers, and interact with KML layers on an embedded Google maps view. Project was funded by research grants through mentor and professor of Geography, Keith Clarke.

TECHNOLOGY EXPERIENCE

- GIS:
 - Worked for two years as an IT assistant in Ellison Hall at UCSB Geography installing server operating systems, installing Esri software on lab machines, configuring ArcGIS Servers, designing Geodatabases, collecting data from multiple sources and merging into single dataset using ArcGIS Desktop and other Esri software tools, managed the department's large campus-centric datasets using ArcCatalog and ArcGIS to update attribute data and perform complex tasks on shapefiles.
- Development:
 - Java, C/C++, C#, PHP, Python, JavaScript, Node.js, HTML, CSS, jQuery, MySQL, PostgreSQL, MSSQL, Oracle, shell/batch scripting

EDUCATION:

University of California Santa Barbara, Computer Science BS