

GUILHERME SALAZAR

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EDUCATION

AUG '12–JUL '13	COMPUTER SCIENCE, VISITING <i>COLLEGE OF ENGINEERING & COMPUTING</i> UNIVERSITY OF SOUTH CAROLINA, UNITED STATES
MAR '10–JUL '16	COMPUTER SCIENCE, B.SC SOFTWARE ENGINEERING, B.SC, DROPPED <i>INSTITUTO DE INFORMÁTICA</i> UNIVERSIDADE FEDERAL DE GOIÁS, BRAZIL

COURSES

JUL–AUG '12	SUMMER PRE-ACADEMIC PROGRAM <i>ENGLISH LANGUAGE TRAINING INSTITUTE</i> UNIVERSITY OF NORTH CAROLINA HOUR LOAD: 115 HOURS
JAN '10–JUL '11	ENGLISH LANGUAGE COURSE <i>CULTURAL NORTE-AMERICANO</i> HOUR LOAD: 120 HOURS

WORK

APR–AUG '16	STUDENT DEVELOPER <i>GOOGLE SUMMER OF CODE, LABLUA</i> <i>I/O API FOR NETBSD KERNEL LUA</i> <p>THE KERNEL PORT OF THE LUA LANGUAGE LACKS SOME OF THE LIBRARIES AVAILABLE IN USER SPACE LUA, SUCH AS THE STANDARD 'IO', 'OS', AND 'MATH' MODULES. SUCH MODULES ARE NOT FREESTANDING; THEY RELY ON THE OPERATING SYSTEM TO PROVIDE THEIR FUNCTIONALITY. IN THIS PROJECT I PORTED LUA 'IO' MODULE AND DEVELOPED A SOCKETS LIBRARY TO KERNEL LUA. SEE THE PROJECT ON GitHub</p>
DEC '15–CUR	DEVELOPER (VOLUNTEER) <i>THE NETBSD FOUNDATION</i> <p>MAINTAINER FOR LUA USER AND KERNEL SPACE IMPLEMENTATIONS. I ALSO MAINTAIN, OUT OF TREE, THE TEST SUITE FOR KERNEL SPACE LUA. I'VE DONE WORK PORTING PARTS OF LUA STANDARD LIBRARIES TO KERNEL SPACE—E.G., <i>BASE</i>, <i>MATH</i>, <i>IO</i>, <i>OS</i> AND DEVELOPING I/O BINDINGS TO FILE SYSTEMS AND SOCKETS. MORE ON GitHub</p>
APR–AUG '15	STUDENT DEVELOPER <i>GOOGLE SUMMER OF CODE, LABLUA</i> <i>PORT LUA TEST SUITE TO THE NETBSD KERNEL</i> <p>PORTED LUA TEST SUITE TO NETBSD KERNEL LUA, THE PORT OF THE LUA LANGUAGE TO KERNEL SPACE; TEST SCRIPTS HAD TO BE ADAPTED TO REMOVE DEPENDENCIES FROM FLOATING-POINT NUMBERS AND PARTS OF LUA'S STANDARD LIBRARIES HAD TO BE REIMPLEMENTED USING KERNEL INTERFACES. SEE THE PROJECT ON GitHub</p>

JAN '14–JUL '15	<p>PROGRAMMER</p> <p><i>MACRO SOFTWARES, LTDA</i></p> <p>DEVELOPED AN ANDROID APP FOR PACKAGE DELIVERY MANAGEMENT. THE APP DISPLAYS THE INFO OF EACH PACKAGE, SUCH AS RECIPIENT AND ADDRESS. THE COURIER CAN ATTACH OBSERVATIONS IN TEXT, AUDIO, TAKE PICTURES, CHANGE THE STATUS OF A PACKAGE, ETC. THE APP ALSO HAS A MESSAGING MODULE, ALLOWING COURIERS TO COMMUNICATE AMONG THEMSELVES AND WITH A DISPATCHER. I ALSO DEVELOPED SPRING RESTFUL WEB SERVICES USED BY THE APP. SEE GOOGLE PLAY</p>
JAN–JUL '13	<p>PROGRAMMER</p> <p><i>COLLEGE OF ENGINEERING & COMPUTING, UNIVERSITY OF SOUTH CAROLINA</i></p> <p>DEVELOPED A WEB APP WITH SOME ELECTRONIC HEALTH RECORDS (EHR) FEATURES, MANAGING PATIENT PERSONAL DATA, QUESTIONNAIRES AND QUIZZES, NEWS FEED, AND MORE. GOOGLE APP ENGINE (PYTHON) WAS USED, ALONG WITH BOOTSTRAP AND JQUERY ON THE FRONT END. UNDER DR. JOSÉ VIDAL</p>
MAR '11–JUL '12	<p>RESEARCH ASSISTANT</p> <p><i>INSTITUTO DE INFORMÁTICA, UNIVERSIDADE FEDERAL DE GOIÁS</i></p> <p><i>CONCURRENT & DISTRIBUTED SYSTEMS</i>: STUDY OF MODELS AND MECHANISMS OF COORDINATION AND COMMUNICATION IN EVENT-DRIVEN CONCURRENT AND DISTRIBUTED SYSTEMS; THE USE OF LUA IN THE DEVELOPMENT OF HIGHER-LEVEL CONCURRENCY ABSTRACTIONS.</p> <p><i>SMART CITIES (IoT)</i>: STUDY, EXPERIMENTATION, AND EVALUATION OF IP STACK IMPLEMENTATIONS FOR LOW-POWER DEVICES (E.G., TELOS^B AND MICA^Z MOTES).</p> <p>BOTH PROJECTS UNDER DR. BRUNO SILVESTRE</p>
2011, 2014, 2015	<p>TEACHING ASSISTANT</p> <p><i>INSTITUTO DE INFORMÁTICA, UNIVERSIDADE FEDERAL DE GOIÁS</i></p> <p>MAR–JUL '15: FORMAL LANGUAGES AND AUTOMATA</p> <p>MAR–JUL '14: OPERATING SYSTEMS</p> <p>AUG–DEC '11: SOFTWARE CONSTRUCTION</p>

PUBLICATIONS

- [1] BRUNO SILVESTRE, GUILHERME SALAZAR. *PROPOSTA DE UM MODELO PARA O PROCESSAMENTO DE EVENTOS CONCORRENTES NO ALUA*. ENCONTRO ANUAL DE COMPUTAÇÃO, UNIVERSIDADE FEDERAL DE GOIÁS. OCTOBER 26, 2011

ASSOCIATIONS

MAY '16–CUR	BRAZILIAN COMPUTING SOCIETY
DEC '15–CUR	THE NETBSD FOUNDATION
FEB '13–CUR	ALPHA LAMBDA DELTA HONOR SOCIETY
DEC '11–CUR	ASSOCIATION FOR COMPUTING MACHINERY

AWARDS

2012–2013	<p>DEAN'S HONOR LIST</p> <p>COLLEGE OF ENGINEERING & COMPUTING, UNIVERSITY OF SOUTH CAROLINA</p>
2012	<p>STUDY ABROAD SCHOLARSHIP</p> <p>MINISTRY OF EDUCATION, GOVERNMENT OF BRAZIL</p>
2011	<p>BEST PAPER AWARD</p> <p>ENCONTRO ANUAL DE COMPUTAÇÃO, UNIVERSIDADE FEDERAL DE GOIÁS</p>

SKILLS

TOOLS & TECHNOLOGIES I HAVE USED AND AM FAMILIAR WITH

» PORTUGUESE (BR)	• • •	» ENGLISH (US)	• • •		
» C	• • •	» PYTHON	• •	» JAVASCRIPT	• •
» LUA	• • •	» JAVA	• •	» NESC	•
» OPENRESTY	•	» GAE	• •		
» FLASK	•	» AWS (EC2)	•		
» SQL	•	» POSTGRESQL	•	» HBASE	•
» MYSQL	•	» SQLITE	•	» REDIS	•
» HTML/CSS	• •	» JQUERY	•		
» BOOTSTRAP	• •	» KNOCKOUT	•		
» FREEBSD	• •	» GNU/LINUX	• • •	» TINYOS	•
» NETBSD	• •	» ANDROID	• •		
» VAGRANT	• •	» GITHUB	• •	» CVS	•
» GIT	• •	» SVN	•		

- FAMILIAR; SMALL-SCALE PROJECTS
- • QUITE FAMILIAR; USED IN LARGER PROJECTS
- • • EXTENSIVE KNOWLEDGE