

Robert Wagner

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🎓 EDUCATION

BROOKLYN COLLEGE

BS in Computer Science
BS in Mathematics
Minor in Cognitive Science
Spring 2018± | Brooklyn, NY
GPA: 4.0 | Dean's list

LOUISIANA STATE UNIVERSITY

BArch in Architecture
Dec. 2002 | Baton Rouge, LA
GPA: 3.0 | Dean's list (3 sem.)

✎ COURSES

COMPUTER SCIENCE

Data Structures
Computer Architecture
Artificial Intelligence
Analysis of Algorithms
Theory of Computation
Operating Systems¹
Database Theory¹

MATHEMATICS

Discrete Mathematics
Linear Algebra
Probability Theory
Numerical Methods¹
Mathematical Statistics¹
¹Spring 2017 (Projected)

⚙️ SKILLS

LANGUAGES

C++ • Java • Python • R
C • Matlab • \LaTeX • CSS
Javascript • x86 Assembly

FRAMEWORKS

TensorFlow • Theano • Keras
Dplyr • Numpy • Ggplot

DATABASES

MongoDB • PostgreSQL
Domino • MariaDB

TOOLS

Git • Make • Gradle

GRAPHICS/DESIGN

Photoshop • InDesign
Illustrator • AutoCAD
Revit • Sketchup • V-ray
3DS MAX • Rhino

🏢 EXPERIENCE

SBLM ARCHITECTS | SENIOR DESIGNER

Feb 2012 – Jan 2016 | New York, NY

- Developed design standards for successful multi-project roll-outs.
- Scoped and programmed projects with clients during master planning charrettes.
- Produced feasibility studies for due diligence and stakeholder approval.
- Provided management, technical training, guidance, and mentorship to junior staff while promoting a philosophy of maintainability, modularity, and clear documentation in CAD and other technical work.
- Designed, visualized, and executed many successful projects.

NILES BOLTON ASSOCIATES | ARCHITECT

Nov 2004 – Feb 2010 | Atlanta, GA

- Developed task automation tools in LISP to streamline AutoCAD drafting standards compliance checking and quality assurance control.
- Pioneered the in-house use of templated linking of AutoCAD and 3DS MAX to improve visualization turnaround time.
- Served on the technical standards committee and promoted workflow optimizations.
- Designed, visualized, and executed many successful projects.

KIRKLAND + ASSOCIATES | INTERN ARCHITECT

Feb 2003 – Nov 2004 | Atlanta, GA

- Introduced an advanced CAD workflow to replace existing inefficient methods.

IT GOLEM | STARTUP CO-FOUNDER

July 2002 – Feb 2003 | Atlanta, GA

- Developed motion-sensing multi-camera DVR internet appliance in C and x86 assembly using SDL and ffmpeg libraries on Geode GX1 embedded platform running the LAMP stack for web access. I focused on video capture and overlay, interactive console, motion detection, and MPEG recording.
- Implemented 8 channel video capture on embedded decoder with dynamic frame rate.
- Implemented Canny edge detection and motion sensing in x86/MMX assembly.
- Developed hardware-accelerated HUD overlay console for DVR operation.

LA DEPT. OF PUBLIC SAFETY & CORRECTIONS | DATABASE INTERN

May 1997 – Jan 2001 | Baton Rouge, LA

- Developed Lotus Notes/Domino applications to transition from mainframe + terminal paradigm which allowed officers to remotely write reports and access offender data and allowed the department to eliminate a 24-hour call center.
- Organized and optimized an OCR workflow for digitizing bulk paper records into a search-able, report-able, and analyze-able database.
- Transitioned a department from AT&T 3B2 Unix V / Informix-4GL / Multiplan to Lotus Domino, retaining all documents and existing workflow and introducing automated tools for collaboration and data-sharing with other departments.

★ AWARDS

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|------|-----------|---|
| 2001 | LSU TAF | Scholarship for honors thesis research: Mississippi River Museum design project |
| 2000 | 1st place | Acme Brick Design Competition / Scholarship |
| 1997 | 2nd place | Louisiana state science fair: Implemented "Boids" flock simulation |