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William Chu

Education

2015–2017 **Master of Science: Computer Science**.
GPA: 4.0/4.0 Bradley University, Peoria, IL

2011–2015 **Bachelor of Science: Computer Science**.
GPA: 3.8/4.0 Bradley University, Peoria, IL

Languages and Technologies

Programming: C/C++, Java
Web: HTML5, CSS3, JavaScript, jQuery, PHP
Scripting: Bash, Lua, Python
Databases: MySQL/MariaDB, Postgres, Oracle, SQLite
Tools: Git, GitLab, Jenkins
OSs: Linux (Debian, CentOS), FreeBSD, Windows

Experience

2015–2017 **Graduate Assistant: Ciliates.org**, *Bradley University*, Peoria, IL.
- Developed websites for the collection and display of genomic data.
- Deployed and managed web applications for the analysis of genomic data.
- Performed analysis on genomic data and published results for public viewing

2014–2015 **Caterpillar**, Peoria, IL.
- Developed both web and stand-alone applications.
- Analyzed supply chain performance and provided dashboard metrics
- Developed software to improve efficiency and streamline workflow
  - Manipulating 3d modeling software for analysis
  - Analyzing part compatibility and reusage
  - Automating data collection
- Performed maintenance and fixed issues in software developed by third-party development companies

2013–2015 **Undergraduate Research**, *Bradley University*, Peoria, IL.
- Assisted in the research of Wireless Sensor Networks (WSN).
- Performed research on intruder detection in WSNs.
- Developed software for validating theoretical analysis.

Publications

2017 **The Macronuclear Genome of Stentor coeruleus Reveals Tiny Introns in a Giant Cell (Co-Author)**.
- PMCID: PMC5659724
- Provided tools for genomic analysis.

2015 **Detection of Intelligent Intruders in Wireless Sensor Networks (Co-Author)**.
- DOI: 10.3390/FI8010002
- Performed research intelligent intrusion on Wireless Sensor Networks (WSN).
- Developed and studied pathing algorithms for intrusion into a WSN with both full and zero knowledge of the network.

2014 **Partial Sensing Coverage in 3D Wireless Lattice Sensor Networks (Co-Author)**.
- DOI: 10.1109/ICC.2014.6883289
- Performed on the sensing properties of Wireless Sensor Networks in lattice configurations.
- Assisted in equation derivation and simulation-based validation of theoretical analyses.