

JAMES COLEMAN GIBSON

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EDUCATION	Bachelor of Science, Computer Science Rose-Hulman Institute of Technology <i>GPA 3.79</i>	May '18
EXPERIENCE	Teaching Assistant <i>Rose-Hulman Computer Science Department</i> <ul style="list-style-type: none">Assistant in Programming Language Concepts, Software Requirements EngineeringTeaching students basics of programming language implementationGuiding students through important software engineering concepts Intern <i>Groupon, Chicago</i> <ul style="list-style-type: none">Contributed to the design and implementation of Groupon's machine learning platformInterfaced between Java, Python, and R to run data scientists' code on a Hadoop clusterPicked up stories alongside full time developers Intern <i>Beckman-Coulter, Indianapolis</i> <ul style="list-style-type: none">Researched web technologies for a future Beckman-Coulter productUsed Angular, RxJS, TypeScript to build a front-end prototypeInvestigated high availability database systems for feasibility Developer <i>Rose-Hulman Ventures</i> <ul style="list-style-type: none">Maintained and developed a workers' compensation websiteRedesigned most frequently used page on siteWrote software used by paying clients	Sept '15 – Current May '17 – Aug '17 June '16 – Aug '16 Dec '15 – May '16
PROJECTS	Dependently Typed Red-Black Tree <i>CSSE403, Programming Language Paradigms</i> <ul style="list-style-type: none">Wrote a Red-Black tree implementation which enforced color invariant at compile timeUsed GHC extensions to allow for dependent typing in Haskell UML Generation <i>CSSE374, Software Design</i> <ul style="list-style-type: none">Constructed a static analysis and UML generation library for JavaDesigned the library to be extensible alongside two other team members Scheme Interpreter <i>CSSE304, Programming Language Concepts</i> <ul style="list-style-type: none">Implemented a Scheme-like programming language using SchemeAdded features to our language not present in R6RS Handwritten Digit Classification <i>MA490, Data Mining</i> <ul style="list-style-type: none">Classified user input with neural network trained on MNIST datasetWrote a DBSCAN C extension for Python to segment text Processor Design <i>Computer Architecture I</i> <ul style="list-style-type: none">Created and tested stack based multicycle processor using XilinxWrote processor emulator and assembler GUI to facilitate testing	Jan '17 – Feb '17 Nov '16 – Feb '17 Nov '16 – Feb '17 Jan '16 – Feb '16 Oct '15 – Nov '15
ADDITIONAL	Notable current classes include Deep Learning, Functional Design Patterns Notable previous classes include Intro to Hadoop, Linear Algebra I & II, Operating Systems Hobbies include art history, photography, reading, running Linux as primary OS	